

Acc. 12-053
Killip Field Notes, # 38000-35696
1939

Colombia Cacti /
Wedermann

Monats. Deutsch.

Kahl. - Gesell.

~~pp 3-~~ Jan. 1932

Kp 3 sq.

2 plants received from
Mun. Org. 4/9, both orchids
from forest
near Guermeal

Brown = ? dyanderae
^{Kunze}

Orch = "Guereme" with
same slope as 34911
Cavendishia guereme,

Bromel, collected at
Sanctuaria
34912



Standard Blank Book

No. 67 $\frac{1}{2}$

Journals Double \$ and Cts. no Units

Cash Books " " " "

Day Books " " " "

S. E. Ledgers " " " "

D. E. Ledgers Full Page Form " "

Long Day Books " "

Records with Margin Line

In 150, 200, 300 and 500 Pages

Made in U. S. A.

Plant photos com(3) = 6

19. 33210 (lt.) 6cm = 2 140, 354559

33211 (rt.) 6my = 2 148, 35502

20. 33100 - 6cm(4) = 6 128, \downarrow com Bul. 5

24. 33337 - 1cm ~~10~~ (10) = 13

26. 33350 - (4) cm Bul = 3

41. 33610 - 1 —

54. 33711 - com(3) = 5

56. 33856 - 6cf = 3

62. 33942 - com Bul \downarrow 7

63. 33943 - 6cm Bul - 4

64. 33944 - 6cm Bul - 3

69. 33948 —

81. 3415-3 (4) g - 2

82. 34099 - 6cm(2) = 6

85. 34349 - 6cm(4) = 4

88. 34507 —

89. 33628(?) —

96. 34540 com = 2

97. 34540 com = 2

98. 34540 com = $\frac{3}{2}$

107. 34704 com(2) = 5

Met
of 4
made
pt. 39

Negatives - Col. '39



Stand Blank Bo

No. 67½

Journals Double \$ and Cts.

Cash Books " " "

Day Books " " "

S. E. Ledgers " " "

D. E. Ledgers Full Page Form

Long Day Books

Records with Margin Line

In 150, 200, 300 and 500

Made in U. S. A.

20
117
56
88
89
41
69
63
24
19
64
26
54
45

000000
96
97
52
81

148 (made for us)

✓ 33001 *Lycopodium*
Stiff slender l., up to 2'

✓ 33002 Alga; on roots & stems of mangrove

✓ 33003 "

✓ 33004 *Vittaria Ptolomaei*:
Epip.

✓ 33005 *Dinorphandra*
Slender mbr. plant, up to 12" high; arising from pair of large "bladders" (ex later cell.)

✓ 33006 *Laguncularia*
S. long br.; fl. pink-w

✓ 33007 *Pavonia*
S ± 3 ft.; pet. y-pi

✓ 33008 *Piper*
S 3-4 ft., ±

✓ 33009 *Alocasia*: Tropae
Herbae. vine.

✓ 33010 Phallus.
Suff. vine; cor. pale pink, lob. 2 form mapp.

✓ 33011 V; pet. y
Rescentia
T 3-10-15' (fr)

✓ 33013 Ochna.
Ep.; old sp. light pi

✓ 33014 Ochna.
Ep.

✓ 33015 Ochna.
+ a few papery spots near base
Buds light pink, turn dark after maturing, parthenocarpic.
Ochna all except pi

✓ 33016 Ochna.
No sp. found
See notes.

✓ 33017 Benthamaea?
Cane bark, densely viscous thorns; up to 4 ft high, with sulphur colored stem or branches; fls. yellow pink,
standard lined with deep pi.

Buenaventura Bay, Agua Dulce (no mangroves) 4 2/8/39

Mangrove swamp
With G. R. Dagda ~

" ~

6

Puntarenas, mangroves. 6

coastal thickets
Behind mangrove swamp 5

7

swamp marsh

Coastal thickets

woods

marsh

✓ 33035 *Glossiaea*
Hab., 1-3 ft.; pet. y

✓ 33036 *Desmodium*
Fls. pink; proc. l., br. suber.

✓ 33037 *Cyperus*

✓ 33038 *Chlidonia*
5 ± 2'; pet. wh.

✓ 33039 *Nelast.*
Hab. m - branched above; pet. pale pink; anthers deep pink

✓ 33040 *Nelast.*
Pet. ripe

✓ 33041 *Thomsonia*
Cor. deep pink in outer portion; light pink in outer dist.

✓ 33042 *Xyris*
Pet. y

✓ 33043 *Scroph.*
Portulate lvs.; cor. viol. out, whitish in, lobes viol.-margined

✓ 33044 *Hydrocotyle*
Repetent herb; bls. green wh.

✓ 33045 *Cleoch. acis*.

✓ 33046 *Fimbristylis*

✓ 33047 *Cuphea*
Pet. pink.

✓ 33048 *Oreschyna*.
 slender h.; pet. light y

✓ 33049 *Uoniola*
Stoloniferous herbs.

✓ 33050 *Spilanthes*

✓ 33051 *Piper*
Stem slightly succulent; rays bright y; pet. dark y
2-3 m

Buenaventura; marsh

2/5-

waste places

tidal swamp.

swamp.

~~Wet soil~~

waste places

Gorgonilla fa... sandy beach

2/8

✓ 33052 Chamaepistisla
much br.
Tree 5m, trunk 5-7 cm. diam.; pet. light y

✓ 33053 Peperomia
Reput on tree trunks, o dependent

33054 Epidendrum nocturnum?
Epip. 5 pet. gr.; lip. wh.; cal. brownish

33055 Moss on roots of 33054

✓ 33056 Ficus
Tree 6-7 m.

✓ 33057 Adiantum
Crevices of rocky cliffs

✓ 33058 Kyehinga
" Cacop. h

33059 Gesneria tomentosa
Old infl.

✓ 33060 Acac.
Reput, zigzag stems

✓ 33061 Clebadium
St 2m. Plant, w; styles purp.

✓ 33062 Bignon.
High-climbing vine on trees

✓ 33063 Simarub.
Sm. tr ± 3 m., fr.; br. spread.

33064 Polypodium
Ep.

✓ 33065 Rub.
Indire patches in sandy soil

✓ 33066 Erythrina Trichotis Anchieta (Choco) Tzeyon
Canal 2 m; fr. 2-3 m.

✓ 33067 Acalypha
Sm. tr, 4 m.

✓ 33068 Rub.
Tr., wood br., slender trunk; young fr. br.

~~Gorgonilla~~ Gorgonilla Is.; woods along coast

2/8/29

: rocky cliffs

"

Woods along coast

Sandy
dense forest; 130 m.

✓ 33069 *Eustrephus*
Jr. 4-5 m; cor. wh.; also at sea-level

✓ 33070 *Arac.*
Climbing Trunks

✓ 33071 *Peperomia*
Hep. from trees

✓ 33072 *Costus*
A. trunk, ± 1.7-2 m. h.; fr. r., per. y

✓ 33073 *Polypodium*
Climbing on t

✓ 33074 *Arac.*
Climbing on t

✓ 33075 *Fern*
Fr. 1.5-2 m l. when dev.

✓ 33076 *Moss*
On decaying log

✓ 33077 *Solanum*
S ± 2 m; cor. w, anth. y

✓ 33078 *Nympia?*
T. 4-5 m; fl. pi

✓ 33079 *Peperomia*
Hep. from tr.

✓ 33080 *Moss*
On dec. log.

✓ 33081 *Paramea*
Sh. 3-3.5 m

✓ 33082 *Erythrox?*
L. 3-4 m.

✓ 33083 *Pothomphle*
H. up to 1 m

✓ 33084 *Sciadophyllum*
S ± 2 m; lvs & infl. at top

✓ 33085 *Anthonia*
Ter. h.

Gorgonilla Is.; dense sandy forest, 130-200m. 2/8

✓ 33086 *Cleidemia*
Sh. ± 1 m; with erect stems; auth. of fil. pi.

✓ 33087 *Pab.*
S 1.7-2 m; cor. rich pi, fr. purple

✓ 33088 *Piper*
Sh. ± 2 m

✓ 33089 *Peperomia*
Rep. from tr. br.

✓ 33090 *Anthurium*
On tr.; lvs very shiny

✓ 33091 *Polypodium*
On trees

✓ 33092 *Melast.*
Sh. ± 2 m; stem str.; fr. bright blue

✓ 33093 *Huonia lacera*
S 1-1.5 m; pet. r st. pi

✓ 33094 *Clusia*
Bush h. sh or sm tree

✓ 33095 *Piper*
S ± 1.5 m.

33096 *Cassia*
Jr. 6-7 m, spr. crown; pods up to 40 cm (get!)

✓ 33097 *Heslopia*
Jr. pet. or -y, at length r

✓ 33098 *Blechnum*
S ± 1.5-2.5 m; pet. wavy wh, fil. yel gr; auth. y, deep gr. dist

✓ 33099 *Tecaria*

✓ 33100 *Marila*
Jr. ± vase-shaped; lvs & infl. at top of ascending br.
Pl. 20 Pet. bright y, against dark ground

✓ 33101 *Adiantum*

✓ 33102 *Hypolytrum*

Gorgonilla Ta.; dense sandy forest 150-200m.

2/8

Gorgona Ta.; ^{near coast} thickets near coast

2/9

woods " "

beach

coastal thickets

→ predominant pl. of SE corner

bank of
in forest, along small stream
dense forest

bank
in forest, along small stream

✓33103 *Dichromena*
Very hairy

✓33104 *Technosiphon*
Per. wh.

✓33105 *Spigelia*
B.s. wh. H

✓33106 *Polypondium duale*
On tree trunk

✓33107 Rub.
Ex. bush. 1m high; fr. r

✓33108 *Piper*
S ± 1m

33109 *Vanilla*
V

✓33110 *Arac.*

✓33111 *Piper*
Shrub ± 2.5 m.

✓33112 *Blaea*

✓33113 *Casearia*
Shrub 5m.; fl. wh.; fr. purpl., sweet, pulp in by

✓33114 *Palicourea*
Small tree, 4m.; br. infl. reddish; cor. y

✓33115 *Piper*
Shrub

✓33116 *Arac.*

✓33117 *Piper*
Long vine

✓33118 *Psychotria*
Sh 3m, small tr

✓33119 *Piper gigantum*
Tr. 4 m, elong. br.

un - 15

Gorgona Is. bank of small stream in forest
+ sea level

219

dense for.

Gorgona Is.: dense sandy forest, 180-200 m.

218

E

✓ 33120 *Piper*
St. ± 1.5 m.
✓ 33121 *Psychotria*
Tr. 11 m, trunk 80 cm. diam.
✓ 33122 *Cesalpinia*
See Separate Fruit Collection
Fruit, 3 m, branches spreading
✓ 33123 *Lycopodium*

✓ 33124 *Sauvagea*
Hab; fl. pink w
✓ 33125 *Melast.*
H.; fl. wh.
✓ 33126 *Jernimadia catappa*
Tr. 8 m. (cont.)
✓ 33127 *Psychotria*
Tr. 4 m or more; cor. wh.
✓ 33128 *Rub.*

✓ 33129 *Couep.*
S. 2 m.
✓ 33130 *Peperomia*
Is. off cliffs
✓ 33131 *Brevitrichia*
" "
✓ 33132 *Thlaspias*
On shaded cliffs

✓ 33133 *Melast.*
H. to 75 cm; fl. pink; st. w
✓ 33134 *Dioscorea*
Herb; fl. pink
✓ 33135 *Myrsinaceae*
✓ 33136 *Thlaspias*

Additional Material in
General Herbarium.

Gorgona Is.: woods ~~near coast~~

2/9

coastal thickets

woods

u
unidentified for time
"Almondos"

woods near coast

2/10

Gorgonilla: on cliff along shore

2/10

Gorgona Is. (east side) coastal thickets

2/11

✓33137 Scleria

✓33138 Peperomia
~~Cl. trees & dep.~~

✓33139 Melast.

S fls. sp.

✓33140 Neopeltigera

✓33141 Fungus
On small eggs; wh.✓33142 Melast.
H.

✓33143 Aca.

Ter., U. st.

✓33144 Hep.
On tree

✓33145 Moss

do

✓33146 Piper

✓33147 Rub

Jr. por. wh.; br. in fruit purplish blue; fr. gr.
Rub.

Pembes infl. Sm. tr.

✓33149 Dipter.

V; fls. white

✓33150 Hyptis

✓33151 Selag.

Ter.

✓33152 Rub. myrsinoides
Conf. fls. St 1 m

✓33153 Euphi.

S 2.5-3 m; very inedible; fls. gr.

Gorgona Is.: ^{near} Coastal bush

Dense forest along stream

✓ 33154 *Nandina*
V

✓ 33155 *Sporanace*
H.; fls. w.

✓ 33156 *Selag.*
Vine

✓ 33157 *Adiantum*

✓ 33158 *Piper*
8 ft - 1.5 m.

✓ 33159 *Coccocypselium*
1 m
H; strob. red,

✓ 33160 *Geonoma*
Tr. 80 cm. high

✓ 33161 *Rhipidopteris*
On dec. tr.

✓ 33162 *Ode.*

✓ 33163 *Polypondia*
Ep.; pet. deep pi; lip ocell. yg

✓ 33164 *Selag.*
Ter. stem ref.

✓ 33165 *Tectaria?*
Sterile

✓ 33166 *Moraceae*
Tr. ± 4 m; buds q w

✓ 33167 *Cyper.*

✓ 33168 *Piper*
80 cm; sterile

✓ 33169 *Sol.*
Slender sh. ± 2 m; cor. wh. acute. gishy

✓ 33170 *Baehnia marinae* sp. nov.
erect
S. slender. ± 2 m; pet. wh.

Gorgona Is. (east side); dense forest

261

✓ 33171 Melast.
S; pet. pi.

✓ 33172 Helechos.

✓ 33173 Heritiera *Cyclodium trianae* var. *chocoense* A.R. Smith
Caul. ± 80 cm; fr. 1.6 cm, ~~sp~~

✓ 33174 Epidendrum
Ep. 5 ft. gr. lip & col. wh.

✓ 33175 Moss
On dec. tr.

✓ 33176 Rub.
Br. wh. slender shr

✓ 33177 Carluccioa

✓ 33178 Rub.

✓ 33179 Pl. wh. T 5 m. up
Lesseur.

✓ 33180 Arae.
H. on muddy bank; cor. bright y

✓ 33181 Pterosporangium
Ep.

✓ 33182 Tiliandria
Ep.

✓ 33183 Euphr.
Ep.

✓ 33184 Lindaea
Ter.

✓ 33185 Arae.
Ep.

✓ 33186 Melast.
Sut. ± 3 m

✓ 33187 Brownea.

Gorgona Is. (west side); dense for dry forest

U

U

U

U - G

H - G

U - K

U - K

U - K

U - K

✓ 33188 Moss
Clumps mt. t.

✓ 33189 Selag.
On bank

✓ 33190 Hymenop.
On wet t.

✓ 33191 Hymenop.

✓ 33192 Cyperac.

✓ 33193 Rub.

✓ 33194 Moss
On Rub
fl. dev bank; tr. 10m.

✓ 33195 Tridiumia
Ep.

✓ 33196 Polypodium
Ep.

✓ 33197 Hepatophyllum
Ep.

✓ 33198 Asplenium *Thelypteris leprieurii* (Roxb.) Tyron var. 1. det A.R. Smith 1976

✓ 33199 Polypodium

✓ 33200 ?

✓ 33201 Casuarina
Stems; clavistimulos; los at top of straight stems to ± 3m.
Sun tr; fl. ground w

✓ 33202 Faramea
Sun. tr. 5-6 m. fl. wine-red; cr. light gr.

✓ 33203 Conocarpus
W.V., cr. wh.

✓ 33204 Jasminum
W.V.; cr. rich pi

Jorgona Pz., along stream in dense for.

un - 1C

un - 1C

: edge of forest at coast

✓ 33205 Myrt. ? ~~lutea~~
Tree 10m. or more; fr. red

✓ 33206 Psidocinia
Jr.; fls. pinkish.

✓ 33207 Bignon.
WV; fls. bright y.

✓ 33208 Melast.
T pet. rich pi., st. deep purple

✓ 33209 Rub.
T ~~Corolla~~ Cor tube yg, lobes rich pi

✓ 33210 Clusia
T ± 3m.; fls. w.

✓ 33211 ?
T ± 3m.; fr. dull red.

✓ 33212 Melast.
T. pet. deep pi

✓ 33213 ~~Hamelia~~, Fern
Is. pet. rich pi. Jr.

✓ 33214 Pera
S 3-4m; fr. pink w

✓ 33215 ?
Small tree

✓ 33216 Dicranopteris bipinnata
Overhanging cliffs

✓ 33217 Macrogavia
V, seeds red.

✓ 33218 Dicranopteris pectinata
Overhanging cliffs; no fertile seen

✓ 33219 Rub.
Fls. T. buds pinkish

✓ 33220 Burser.
Jr. pet. pale pi.

✓ 33221 Cecropia
Jr. ± 12 m.

Gorgona Is.: edge of forest at coast

✓ 33222 *Hedyosmum* *carinatum*
T ± 3 m; ripe fr. black, lustrous

✓ 33223 *Malp.*
V; fls. y.

✓ 33224 *Polyphlea*
Anabig tis.

✓ 33225 *Rub.*
2-2.5 m.
Rn. tis; slender straight tis; br. wh.

✓ 33226 *Arcy.* 5 ft
Dr. scarlet

✓ 33227 *Rub.*
Br. reddish pi.

✓ 33228 *Och.*

✓ 33229 Ep. fls. pi.; dotted & blotched with purp.
Asclepias mucronata

✓ 33230 *Chamaecrista*
H.; fls. y.

✓ 33231 *Peperomia*
Replant in soil in open.

✓ 33232 *Gesu.*
Bracts light gr.; cor. bright y.

✓ 33233 *Utricularia*
Cor. y

✓ 33234 *Scleria*

✓ 33235 "

✓ 33236 *Piper*
T ± 4 m

✓ 33237 *Pismambeva*
Cor. gr.

✓ 33238 *Velost*
Ter.; lvs. red; br. pi; fls. w

Un

Gorgona Is.; edge of for. at coast,
thickets along coast
edge of for. at "
along stream in dense for.

Buenaventura: waste places

(R.R.)
Km. 18 (Pumping Station), e. of Buenaventura:
(2 Km. w. of Cali)

2/13

2/14

Open incised.

Bog
swamps.

dense forest

swamp.

dense forest

1244a Gesu.

✓ 33239 Rub.
purple lobes bright blue
dark pinkish shaft

✓ 33240 Calathea
Per. wh.; fl. ± 1.5 m.

✓ 33241 ~~Calathea~~ Trichetia rigipes var. brunnescens R. Br. ex Gr.
Per. w. fl. ± 1 m

✓ 33242 Piper
Ter

✓ 33243 Bromel.
Ep.

✓ 33244 Gesu.
Cn. tube grayish dist. of purple; lob solid grey, base orange or red via
"Vibora" "Vibora"

✓ 33245 Gesu.
Br. y, red dist. lob red tan.

✓ 33246 ~~Dipteris~~ Cyclocladum triancum var. chocoreense A. R. Smith
(Stiff fr.)

✓ 33247 Lindsaea

✓ 33248 Moss on
On leaves

✓ 33249 Anthurium
On tree

✓ 33250 Rac.

✓ 33251 Gesu.
Ter.; ~~woof~~ Econ. wh.

✓ 33252 Trichomanes pinnata
Ter.

✓ 33253 Trich.
Ref. on ft.

✓ 33254 Pilea
Ter.

✓ 33255 Palm
Trunk 50 cm. diam.
Trunk 5 m; fl. 10 cm. long.
Infl. with short, stout ± 20 cm diam peduncle; Total with ± 60 cm.

Km 18

dense forest

914

✓ 33256 Cyruaceae

✓ 33257 Melast.
lf (st. □) pet. pinkish wh.

✓ 33258 Rub.
Buds y-g. Flw. t.

✓ 33259 Manecilia
Herb V.

✓ 33260 Rub.
Sun T. br. white; tuba gr. wh., lobes w (slender br)

✓ 33261 Rub.
fr. ~~pink~~ purple

✓ 33262 Tylopodium

33263 Costus Coleosha
Per. wh., bi. annual

✓ 33264 Peperomia
Rep. on T.T.

✓ 33265 Melast.
S + 2 m., pet. o. st. pi. (los retic.)

✓ 33266 Melast Jococa
fr. pi.

✓ 33267 Piper
Surf. h. ± 2.6 m.

✓ 33268 Coccocyphelia
E. s ± 70 cm.

✓ 33269 Gesner
Der. few long red blotches on the ban.

✓ 33270 Arac.
H.; pet. w

✓ 33271 Coccocyphelia
E. s; fr. scarlet

✓ 33272 Tidoma

dense for.

2/14

✓33273 Rub.
 ✓33274 H.; los purple & green
 ✓33275 Bauhinia
 WV
 ✓33276 Rub.
 T.
 ✓33277 Melast.
 H.
 ✓33278 Boromel.
 Br. bright red.
 ✓33279 ? Clavigia
 Jr.
 ✓33280 Burmannia?
 Spathoph.; fls. white pink; bluish pi. dist.
 ✓33281 Melast.
 Hs. deep pi.
 ✓33282 Seamer.
 Cor. y.
 ✓33283 Melast.
 ✓33284 Cyclanthus
 Sh; Pl. 1.5m
 ✓33285 Moss
 on leaf b. 284
 ✓33286 Chamaefistula
 ✓33287 Chamaedorea
 ✓33288 Melast
 ✓33289 " H

16m 18

Seeme for.

2414

W.M.C. 1K

✓ 33290 Comp.
✓ 33291 Euph.
✓ 33292 Piper
 $H \pm 2.5\text{ m}$
✓ 33293 Anthurium
 $H; spathes$ pale wh.; spat. of tube at depth deep
✓ 33294 Piper
 $H \pm 3\text{ m}$.
✓ 33295 Pittosporum
 $\pm 60\text{ cm high}$
✓ 33296 Cyperus
heads pale
✓ 33297 Hyptis
 $H; fls. purp.$
✓ 33298 Tonina
✓ 33299 Melast.
 $H; fls. pale pi$
✓ 33300 Melast.
 $H \pm 35\text{ cm}$
✓ 33301 Comp.
 $H \pm 1\text{ m}; fls. y$
✓ 33302 Rub.
✓ 33303 Sol.
Dr. y; stem spiny $H \pm 1\text{ m}$
✓ 33304 Grass
✓ 33305 Rub.
 $H, \pm 1.2\text{ m}; br. red; cor. wh$
✓ 33306 Anthurium
out

1/16/18 along r. r.

down for

ph. ^{I-6} Cetia culebra

(all this day) Rio Dagua, at end of highway, Buenaventura down for. 2/15-

along stream

un-1

un-5

✓ 33307 *Carlundovia*
Infl. or.

✓ 33308 *Bromel.*

✓ 33309 Bo Ep.; br.; fls. y; ls. horizontally streaked
Melast. setosa

✓ 33310 Sh. 1.5 m.; st. cr.; infl. pinkish r.
Hemitelia

✓ 33311 Rub.
T, 8 m. ^{tr. 15 cm. diam.}; fr. purple br. & clusters

✓ 33312 Rub.?
H. ± 10 m.

✓ 33313 Gesner.
H 2 m., st. simple; fls. r.

✓ 33314 Rub.
J. fr. gray

✓ 33315 *Arthrinium*
Ep.

✓ 33316 Rub.
H. ± 80 cm.

✓ 33317 *Monetaria*
HV; cor. green!

✓ 33318 H. ± 80 cm.; stems in clusters; infl. distichous; fls. bl. ab.

✓ 33319 *Salvia*
H. up. lip. light blue, lower deep blue

✓ 33320 *Dysoxylum Cyclocladum* Triana var. *chocoense* A.C. Smith

✓ 33321 *Melast.*

✓ 33322 S, 70 cm. fls. rich pi.
Melast.?

✓ 33323 H., Fls. pi
Quettia
Ep. spike purple

un 3 Buena Vista, Río Dagua, at end of highway, ^{front}; along str.

un 1

along. R. Dagua

un 1

un 3

un 9

un 3

✓ 33324 Melast.
H 1m; fl. red

✓ 33325 Polypodiaceae
Rep. on tr.

✓ 33326 Brom.
Ep.; br. bright red; fls. y

✓ 33327 Brom.
Ep.

✓ 33328 Costus
Br. r., ± 2m

✓ 33329 Vacc. ??
T. calyx o-ped. r; fls. y

✓ 33330 Tillandsia Gouania
K.C.V.

✓ 33331 Gesner.
Br. r.; cr. y. Epiph.

33332 ~~Puraria~~
H stem prostrate
W.V.; calyx r.; cr. y

33333 Anthurium
Ep.

✓ 33334 Arthrin.
Ep.

✓ 33335 Melast. (V.)
H. ± 30cm; pet. & st. w

✓ 33336 Heliconia
Pl. 2.5 m. br. red, y at base

✓ 33337 Palm. (Phytelephas?)
Stipe 50 cm, rest of leaf. 3 m or more; infl wh., some at base ^{and} ~~at~~ ^{at} ~~base~~

✓ 33338 Rub.
Succ. T. edge of for; tube light gr, lobes purple br.

✓ 33339 Orch.
Ep. fl. only

33340 Gaertniosiphon
H ± 1.7 m.; fls. y; fruct. 60-80 cm. l.

Buena Vista, Rio Dagua, at end of highway; ~~along river~~ 2/15-

Buena Vista: ^{Aqua dulce} with shore of bay, dense for.

✓ 33341 Moss
On los. of Rub.

✓ 33342 *Antrophyus cordif.*
Spath. gr., spathis red (ter.)

✓ 33343 Rub.
H.; fr. light gr.

✓ 33344 *Danaea*
Ter.

✓ 33345 Melast.
Sh. ± 2 m.; fr. light pi., st. w.

✓ 33346 Selag.
Selag.

✓ 33347 Fern

✓ 33348 *Piper*
S. 2-2.5 m.

✓ 33349 Commel? (?)
Ter.

✓ 33350 Palm
Slender t. 10-15 m; prob. tree overtopping for. in Ph. sterile

✓ 33351 *Palm* *Denocarpus?* Ph. 26
Smooth tr., t. 5 m h., 12 cm diam. sterile; roundish with

✓ 33352 *Guttip.*
T. ± 2.5 m; light

✓ 33353 Rub.
T. ± 4 m; calyx deep purp (age), green (y); con-w

✓ 33354 Tococa
S. ± 80 cm

✓ 33355 Cucurb.
H. V; con. light green out, white.

✓ 33356 *Antrophyus*

✓ 33357 *Kielmeyeria*
var. *asperula*
On bank cut back from R. Agua for m. Spends
for ± 50 ft.

Buenaventura: Agua Dulce; dense for.

2/16

Cordoba: bank of R. Dagua, close to m.
(Top of 50 m.)

2/17

✓ 33358 Marchantia

✓ 33359 Repulospora

u

✓ 33360 Piper

u

✓ 33361 Paspalum

ditch

✓ 33362 Dryopteris

wet bank

✓ 33363 Eleocharis

ditch

33364 "

un

✓ 33365 Selag.

wet bank

✓ 33366 Polygala

un

Pt. pinkish blue

✓ 33367 Gram

dense forest

✓ 33368 Hydrocotyle

Rep. H.; fls. greenish-wh.

✓ 33369 Rencolumia

clearing

✓ 33370 Mandevilla

dense for.

H V; cor. pale y

33371 Calathea

un

Per. y

✓ 33372 Sabicea

S 1.5-2 m; fr. blue

✓ 33373 Peperomia

Sub. H

✓ 33374 Tococa

few s; pet. milky

Cordoba: wet ^{cliffs} bank of R. Dagua, along r.v.

21/7

✓ 33375 *Otoe Sobralia*? low. aper; col. wh. Coroloba: clearing
Ter. Sep. light gr.; 2 pet. ~~base~~ pink; lip whitish, pi.-striped,

✓ 33376 *Napsara* H ± 60-70 cm; pet. pi. pinkish wh.

✓ 33377 *Dryopteris*

✓ 33378 *Melast*
H, ± seg. pet. stam style pi

✓ 33379 *Erihaea quinquecuspis* S 1-1.5 m; cor. light pi.

✓ 33380 *Heliconia*
Br. bright red; per. deep y; infl. pendant

33381 *Yucca*.
Cor. light pi.

33382 *Brom. Rub.*
Sp.; br. (379a) Erect h, ± 50 cm high

✓ 33383 *Coccoa*
St. W V, ± 6 m.

✓ 33384 *Piperomia albifolia*
On dec. loge

✓ 33385 *Coccospiculum*
H V purple; fr. bright blue

✓ 33386 *Manettia*
H V; fls. wh.

✓ 33387 *Rub.*
S cor. wh

33388 *Paleacorea*
T 4-4.5 m; branched infl. red; cor. y

✓ 33389 *Melast*.
Slender Sh.; fl. pi

✓ 33390 *Treoloma*
Ter. h.;

✓ 33391 *Piperomia*
H., st. repand at base

dense for.

clearing
dense for.

clearing

dense for.

✓ 33392 *Nelast.*
So sm. t. \pm 3 m.; pet. pale pi; fr. deep pi

✓ 33393 *Peperomia divaricata*
Ter.
un

✓ 33394 *Nicotinia*
Slender t. sp. wh.

✓ 33395 *Manihot*
Tall, branched h. fls. y-g

✓ 33396 *Cissus*
HV; pet. red!

✓ 33397 *Anac.*

✓ 33398 *Polygonum*
Ter. wh or pinkish w Spaces purpleish br

✓ 33399 *Ruellia*
H. v.; fls. y

✓ 33400 *Ruellia*
HV; fls. y-g; pet. w
H \pm 60-70 cm.; cor. fl

✓ 33401 *Nelast.*
H, elong. br.; cor. pet. magenta

✓ 33402 *Geocoma*
V on tree; cor. pale pi

✓ 33403 *Nikuria*
H. V, infl. pink w

✓ 33404 *Furcifera*
H

✓ 33405 *Tradescantia*
Suc. H. j/pet. wh.

✓ 33406 *Moss*
On *Anthurium*

33407 *Orch.*
Ep.; pet. cog. red
un

✓ 33408 *Rub.*
Sm. tr \pm 2-2.5 m; wige. pendulous

504 1000 m.
Cordoba: dense for.

49

clearing

swampy open

clearing

on for. tree

in open

thickets

in ditch

dense for

✓ 33409 Arac.
Lsf. on trees; lvs red brn. Steinle

✓ 33410 Cycas

✓ 33411 ?

✓ 33412 Moss
On dec. log

✓ 33413 Chamaedorea

St. 7m to infl., 2cm. diam.; lvs. brown.

✓ 33414 Trichomanes
Climbing T.T.

✓ 33415 Melast.

Slender Sh.

✓ 33416 Dichorisandra

En. H.

✓ 33417 Moss

On lvs. of 413

✓ 33418 Gesner

Ep. cor. whitish

✓ 33419 Geonomia

✓ 33420 Calathea

N. Ls. wh.

✓ 33421 Cyathia

Caudex ± 3 m; fronds 2 m.

✓ 33422 Leiphainea

Sepmp. Corolla yellow, lobes pale pink; blue in

✓ 33423 Gesu. reticulata

Ter.; cor. wh.

✓ 33424 Gesu.

Ter. cor. wh.

✓ 33425 Maranta leucostachys

Ter.

Cordoba: dense for 50-100 m.

7/17

63

115

me-k

✓58487a two - 2167

33426 *Chamaedorea*

✓33427 *Melast.*

Sur T.

✓33428 *Besleria*

Ter. Hrb ± 80 cm. br. r.

✓33429 *Nicomia*

Cyathea

✓33430 *Cyathea*

33431 Hep.

on tr.

✓33432 *Asplenium*

on tr.

✓33433 moss

on tr.

33434 *Leucobryum*

on tr.

✓33435 *Diolema buellata*

Pet. pi

✓33436 moss

On Arac.

✓33437 Arac.

Ter.; Steinle

✓33438 *Triartea?*

Steinle

✓33439 moss

but

✓33440 *Morulena grandis*

Ter. H.

✓33441 *Aulium*

On soil

33442 *Gymnosiphon*

Saproph. per grunct wh.

un

Cordoba; dense fr., 50-100 m.

217

u

33443 Burmannia
Saproph.; fl. white

33444 Deandia?
J. S.; p. gr.

33445 Arac.
Ep.; fr. green

33446 Rub.
Sm. tr. fr. light gr.

33447 Coenogonium
Out

33448 Brown.
Ep. br. red; fer. fi

33449 Brown.
Ep. br. red; fer. y

33450 ~~Acac.~~ ✓ moss (83437a)
Ter. spathes ~~out~~ Out

33451 Costus?
Ter; 2nd m; infl. red

33452 Brown.
Ep. br. r

33453 Brown.
Ep.

33454 Brown.
Ep. H

33455 Aethuriin

33456 moss
On los 7456

33457 Eleocharis

33458 Rhynchospa

un. Cordoba, 50-100 m; dense for.

417

un?

un

u

un

Open marsh
Open hillside

✓ 465a

✓ 33460 *Piperomia longisepica*
Epi.33461 *Piperomia obonata*
Epi.✓ 33462 *Xanthoma helleborif.*
Rep. nct.✓ 33463 *Piper* $S \pm 1.8$ m.✓ 33464 *Bielbergia*
Est✓ 33465 *Cucurbit*:

High elev., HV; cor. mang.

✓ 33466 *Pub.*

Surf. H.; up to 80 cm.

✓ 33467 *Polyptilum* Griseb.
Ter. HV (33465a)✓ 33468 *Polyptilum*

Ter.

✓ 33469 *Pern*Fr. ± 1.5 fm.✓ 33470 *Passiflora serratifolia* - dig.

HV.

✓ 33471 *Piper* $S \pm 1$ m.✓ 33472 *Piper* $S \pm 50$ cm✓ 33473 *Acalypha*

Sust 1-2 m.

✓ 33474 *Scroph.*

H. pl. deep blue, foler dist

✓ 33475 *Phascolis*

HV; pet. pi., stell. spicule nct; keel pointed base in

✓ 33476 *Centropogon*

Sh along br.; cor. rich pi.

3

Babia Solaris, ^{partially cleared forest} Tindad Mts sea-level

Lvs

leaf
2 mm
long

✓ 2/1

Aeckata seen marsh along stream

marsh

clearing

edge of woods

✓ 2/2

✓33477 *Pseuderia virido*
S $\frac{1}{2}$ m; fl. r.

✓33478 *Sabicea*
Bract scarlet; cr. whit y. S \pm 1-3m

✓33479 *Diparuma grandifolia*
S, elong. bran; fls. wh. on main stem

✓33480 *Acacia*
H V; fl. bright r.

✓33481 *Passiflora vitifolia*
H V So p. scar. outer fil. red; inner wh.

✓33482 *Pasifl. trifasciata*
H V sterile

✓33483 *Rub.*

T, \pm 3m; fls. y
✓33484 *Epiphyllum*
out.; fls. bright purple

✓33485 *Heliconia*
Bract red at cluster of faces, yellowish green stem per. olive green

✓33486 *Gesn. communis*
Ter. cor. light pi

✓33487 *Polyphodon*
Kept on t

✓33488 *Arac. ?*

✓33489 *Piper*
H, suffr. T \pm 1m

✓33490 *Piper hirta*
S elong. H \pm 1.3m

✓33491 *Piper rugosa*
H 80cm; \pm suffr.

✓33492 *Pilea unifl.*
Ter. & on t, repeat

✓33493 *Gesn. Peperomia*
H \pm 1m; fls. greenish red

Balta Solano:

dense forest along Chorobala Leda, so. of Andalchelto.
~~edge of forest~~

✓ 33494 *Ceratostachys**Gesner.*✓ 33494 *Polybotia pulchra*

Stt., H ± 1m; fls. greenish-white.

✓ 33495 *Polybotia pulchra*

Sm t; infl. pendulous

✓ 33496 *Tectaria trifolia*

Ter.

✓ 33497 *Polypodium*

Rep. on t.

✓ 33498 *Siparuna*

S with elong. br.; pet. wh.

✓ 33499 *Diplazium*✓ 33500 *Gesner. aurantiaca*

Lvs red at apex or along margin bas.; cr. bright y

✓ 33501 *Carludovica*

Stem 20cm.; infl. at base

✓ 33502 *Heliconia*Blade 2 m l; pet. 1.5 m; ~~bracts~~^{bracts} spiky, ~~red~~^{green}, decurrent; bright y✓ 33503 *Eugenia*

Stems two, ± 5 m; trunk 15 cm. diam., erect, unbranched

✓ 33504 *Melast.*

H 1-2 m. fr. pi.

✓ 33505 *grass*

"argutelle"

✓ 33506 *Adiantum*✓ 33507 *Tectaria*"✓ 33508 *Brachistus*

Cr. gr. H ± 2 m.

✓ 33509 *Besleria*

S ± 1.5 m br. red.

✓ 33510 *Sirolena*

Bahia Solano: dens for. along Río La Plata

1/22

133511 ⁵⁴¹✓ 33511 *Dryopteris*✓ 33512 *Beccaria atropurpurea*

Ex., subshrub sh. ± 2 m; fls. r.

✓ 33513 *Trichomanes*

Rep. on t.

✓ 33514 *Psychotria macrophylla*

H up to 1 m

✓ 33515 *Cosmebuxa*

Sh. t. 3-4 m; branches drooping

✓ 33516 *Aegiphila*

on trees; lvs in rosette

✓ 33517 *Trichomanes peltata*

on t.

✓ 33518 *Piper elongata*

S + dm spiken red.

✓ 33519 *Geoumania*✓ 33520 *Clidemia*

Fl. wh.

✓ 33521 *Piper*

H.

✓ 33522 *Piper*

H.

✓ 33523 *Pilea gallowayana*?

Ter. herb; flw.; ± 60 cm.

✓ 33524 *Rub*

T ± 3.5 m; fr. wh.

✓ 33525 *Piperazine*

Ter.

✓ 33526 *Polyphodon*

Ter.

✓ 33527 *Pteris*

Balúa Solano : down for. along Chichicala Lella 2/22

✓ 33528 *Anthurium*
Ter. Spadix wh.; spadix pi
un

✓ 33529 *Diplazium*
un

✓ 33530 *Lepidozizus*
Ter.

✓ 33531 *Costus*
H ± 1m. Br. yellowish

✓ 33532 *Aphelandra*
Br. bright r; cor. y. Sh ± $\frac{75}{25}$ cm, stem slender, straight

✓ 33533 *Gesner.*
Suf. H. br. r., cor. pi

✓ 33534 *Pilea cuthaeoides*
On tree

✓ 33535 *Pteris* (juvenile?)
un-k.

✓ 33536 *Selag.*
Prostrate on bank of stream

✓ 33537 *Peperomia*
On tree

✓ 33538 *Hedeho.*

✓ 33539 *Compositae.*
rhizots +~ 2,50 mts.

✓ 33540 *Neurolechia*
Sh ± 4m; pet. wh.

✓ 33541 *Polypteron* *Piper* *Rub. Guillif.*
Ter. $\frac{3}{2}$ comb. ($\frac{5}{2}$ lca) (514a)

✓ 33542 Fern
Fr. ± 1.8m.

✓ 33543 *Trichomanes*
On fronds

✓ 33544 *Diplazium*

Babia Solano: down for. along th. Leela

2/2

33545 Moss
On *Tectaria trifolia* frond

33546 Moss
On *Sepia* leafs

✓ 33547 Moss
On dec. log

✓ 33548 Moss
On arid leaf

✓ 33549 Fern.
Ter. Br. greenish wh.

33550 Piper
H 2.5-3 m.

33551 Cecropia

✓ 33552 ?
T ± 4-5 m.;

✓ 33553 Dryopanax

✓ 33554 Lasiacis

✓ 33555 Costus
t 2 m.

✓ 33556 Piper
S 2-2.5 m, strictly dichotomous branching

✓ 33557 Sol.
S ± 2.5 m; fl. blash

✓ 33558 Besleria
Cr. or.

✓ 33559 Dicliptera
H ± 50 cm; vr. fl.

✓ 33560 Anac.
Ter.

✓ 33561 ~~Ophiu-~~
Smth. fl. or...

u

u

u

clearing

Thickets

dunes for

Balnia solana: some for. along C. Tella

2/22

33562 ? un
WV fr. red

✓ 33563 S; publant fruit; branched; fr. y; calyx gr.

✓ 33564 Campelia Helleboraceae
Ht # 80-100 cm.

✓ 33565 Helleoria For + 1 m; br. r., yellow toward base; fls. y, green at apex

✓ 33566 Cojoba T ~~2.5-3~~ 6-8 m.

33567 Pavonia un
N; frs. wh.

✓ 33568 Piper S # 2.5-3 m.

✓ 33569 Passiflora chelidonea H V. sterile

✓ 33570 Peperomia Ep.

✓ 33571 Rab ? "Yerba - buenilla"
Cortada mod. mordida de culebras. + 50 cm. fls.

✓ 33572 Costus ~~Stem erect, white, upright. 2-2.5 m.; infl. deflexed~~
+ 2 m; fr. red

33573 Aphelandra lura ~~Stem erect, purple, upright, 2-2.5 m.; infl. deflexed~~
Er. h, + 25 cm; fl. y. (cf 552) infl. deflexed

33574 Dalechampia H. V.; bracts ashy gray

33575 Eupatorium Herect, + 2 m; flowers pinkish w

33576 Aphelandra Ht 80-150 cm.; br. r.; cor. rich pi

33577 Peperomia Ep.

33578 Alternanthera H. + ~~80~~ 80 cm; lvs. red beneath; infl. wh

Balneario Sotano: dense for. along Ch. Lella 2/2

~~Hedge~~ Clearing

dense for.

Clearing

dense for.

Clearing

Clearing

~~edge of woods~~

+
Chub. Seca (dry stream bed)

dense for. near Ch. Seca

clearing

✓ 33579 *Piper*
S ± 2 m.
✓ 33580 *Arac.*
Epif.
✓ 33581 *Aleuritum*

✓ 33582 *Tournefortia*
S; stem simple or few. br., ± 1.5 m; cor. w
✓ 33583 *Mancilia*
H. V.
✓ 33584 *Solanum*
S ± 2.8 m; cor. wh., anth. y
✓ 33585 *Piper celtidif.*
S ± 3 m.
✓ 33586 *Calostyron*
H V Cor. w.
33587 *Ceratopogon*
W V; cor.
✓ 33588 *Pityrogramma sulphurea*
St

✓ 33589 *Acauleth*
Fr. surf. herb ± 1 m; cor. pinkish blue
✓ 33590 *Chamaefistula*
Lm. - g.
S ± 3 m; pet. light y
✓ 33591 *Dryopteris*

✓ 33592 *Melast.*
W.V.; fr. reddish
✓ 33593 *Canna*
H ± 3 m; lvs up to 80 cm; per. red.
✓ 33594 *Passioeis*
H V
✓ 33595 *Begonia*
Succ. H V, drooping branches; pet. wh

Balneario Solano *near th. Sea* 2/22
Beach on slopes
dense for.
Bank of stream

East of Ciudad Matis; Clearing 2/23

edge of for.
lun - 15
Clearing
Edge of for.
Clearing
Edge of for.
open stream-bed (thick. Tellito)
Edge of for.

✓ 33596 *Gommoca*
HV; cor. bright pink

/ 33597 *Gramineae*
 $H \pm 2.5$ m.
 H ; along. b.

/ 33598 *Justicia*
 $H \pm 50$ cm; fl. cor. light blue

✓ 33599 *Commelinaceae* Moss
On los of 600

/ 33600 *Annona*
 $T \pm 10$ m; fl. wh;
fr. sep. ^{green} ~~red~~

33601 *Piperomia*
Dependent on t.

/ 33602 *Begonia*
H.

✓ 33603 *Theobroma* See Separate Fruit Collection
^{fr. kept with} "Bacao" (*Cacao*)
 $T \pm 8$ m; br. reflexed; fls. wh.; fr. r.

✓ 33604 *Physalis*
H; cor. y

/ 33605 *Phaseolus*
HV; fls. y.

✓ 33606 *Gramineae*
Stone rootstock. Cult.

/ 33607 *Phaseolus*
HV; fls. purple + wh.

/ 33608 *Solanum*
 $H \pm 30$ cm; cor. wh

/ 33609 *Prunus*
On los of 608

/ 33610 *Calathea*
fls (incl. pet.) ± 2.5 m.

33611 *Lemna*
H; fls. pi.

/ 33612 *Adiantum*

Boliv. Solano: open stream bed

clearing
edge of for

do
open stream bank
open stream bed

dense forest
open stream bank
open stream bed

"Basto Jacagua"

Pl. 41

open stream bed.

" " bank

dense for.

✓ 33613 Melast.
H with long slender stem; lvs. red. base.

33614 Bob. (Jumaraundi?)
H
T 15m; fr. early.

✓ 33615 Puya
T H 10m.

✓ 33616 Sabicea
S; bracts pinkish; cor. pi. dist., base prop.

✓ 33617 Piper
S H 2-2.5 m.

✓ 33618 Psychotria
H ± 2m; fr. wh.

✓ 33619 Selag.

33620 Trichomanes pinnatum
Lvs - K

33621 Psilocarya
H
Lvs - K

✓ 33622 Dypsis Cyclocladion trionae var. chlorose A. C. Smith

✓ 33623 Chamaedorea
Tr. ± 2.3 m, 10 cm. diam; lvs. ± 1 m

✓ 33624 Neurielia
Caul. ± 2.2 m, 7 cm. diam.
Canes ± 4 m, fr. H. 5 fm. long.

✓ 33625 Danaea

✓ 33626 Melast.
Lvs. G

✓ 33627 Clavija
Sm. ± 3 m; bulb green wh.; trunk straight

33628 Curatella
Ter. Hab; spath w.
PC = Ph. 8.9 at
Vulca.

✓ 33629 Vanilla
H V.

Bolivian Solana: dense for.

2/23

edge of for.
open stream bed

dense for.

open stream bed

Edge of for.

✓ 33630 Gesner.
H.V.; cor. wh.

33631 Fungus
on log

33632 Fungus
ss.

✓ 33633 Peperomia
etc

✓ 33634 Tetraclera
W V climbing on trees

✓ 33635 Condaminia corymbosa
S

See Separate Fruit Collection.

✓ 33636 Lecythidaceae
Fruit found on ground

✓ 33637 Orch.
Ter; stem simple 1.7-2.0 + 1.5 m. (center); cul. wh.

✓ 33638 Piper
St 2.5 fm.; br. div.

✓ 33639 Rior.

Paras.

33640 Hyptis.
Cor. pinkish wh., with small purple dots

✓ 33641 Valerianaceae
cor. w

33642 Melast.
H + sup. pet. mag.

33643 Stylosanthes

Pet. w

✓ 33644 Castilleja
Br. red.

33645 Eup.
H + sup + green; flowers & styles bright pink

✓ 33646 Dryopteris

Balvia Solana: open thicket

open stream bed

thickets

edge of for.

base for.

San Antonio ~~thickets~~ 1900 m.

Partially shaded bank

33647 *Lomaria*

Root sp. separate. Cf if 2 things one

33648 *Thib.*

mod. br.

S ± 60cm; fr. wh.

33649 Hep.

S ± 1m; fl. & style pink blue

33650 ~~Lales~~ *Cinchona*S, simple stem; ~~T~~ ± 2.5m; infl. at apex; cor. pink33651 ~~Thib~~ *Gaultheria*

T shrub sh ± 50cm; fr. bright pr.

33652 *Salvia paleonotis*

H.; cor. rich blue

33653 ?

S ± 2m; fr. wh.

33654 *Viola*

Fl. wh.

33655 *Arae.*

T sp. o pop. wh.

33656 *Moss*

On stems of 655

Moss

33657 *Polypedates* new sp. n.

Ep

new

33658 Hep.

Ep

33659 *Mariaria*

"Siete cueros" on

T ± 2m; pet. mag.

33660 *Psychotria*

T ± 5m; cor. pink

33661 *Besleria*

Sur. T ± 4m; cor. r.

33662 ?

T ± 5m

33663 *Thib*

T 3-4m; fr. wh.

San Antonis 1900 m. ^{Washed bank} ^(fruits)
~~edge of woods~~

2/26

Dense for. ± 2000 m

✓33664 Brom. sp. Per. bright blue

✓33665 Moss On los 664

✓33666 Elleanthus Ep. Dr. only

✓33667 Aneura Ep.

✓33668 Melast T ± 5m; fls. pi.

✓33669 Geaner lob. solid. lvs. with larger spots

✓33670 Geaner sericea Tep; cor. r. straight

✓33671 Acanth. H ± 1m; cor. pinkish wh, lobes deeper pi

✓33672 Seneio Cyp. H V; rays y

✓33673 Phyllanthus Slender cyp. ± prostrate branches on bank

✓33674 Cyp. S ± 2.5m; flowers wh

✓33675 Berchemia? S 1-1.5m; infl. pinkish wh

✓33676 Grass along br.

✓33677 Calceolaria H ± 40cm; cor. y

✓33678 Acanth T. only

✓33679 Avernia

✓33680 Rubi. Tree ± 6m; flor. branches red; fls. y

* San Antonio, 2000 m.; dense for

Feb

wooded bank edge of water (bank)

(Monte Frio) 20°C
El Valle: Yanacónas ~~La Victoria~~, 1700-1850m. 2/27
open bank

dense for.

✓33681 *Psychotria cuspidata*
Sh. or sm. tr., up to $\frac{1}{2}$ m.; fls. ~~blue~~ wh.

✓33682 *Psychotria*
Tree, 4-5. m.; fls. wh.; lvs. smooth; fr. red.

✓33683 Arac.
Ep.; ~~fr.~~ bracts red at base.

✓33684 Moss
Junc.

✓33685 *Peperomia quadrifolia* "Cuadriglito" unr
Ep. Medicinal para la gonorrea

✓33686 *Piper*
Sh. \pm 2.5 m.

✓33687 Rub.
 $T \pm 5$ m; fr. wh.

✓33688 Rub.
Tuft. branches r.; fr. plumb. $\frac{3}{4}$ m. $T \pm 3$ m. 2

✓33689 Arac.
Ep.;

✓33690 Arach. $\frac{3}{4}$
 ± 30 cm.

✓33691 Arac.
Ep.

✓33692 *Pathomorpho* "Hoja de Santiros"
 $t \pm 4$ m. Medicinal. Santamaría "

✓33693 Rub.
Hub; fr. blue

✓33694 Hub. ± 1 m. "Hoja de la ^{Uva} sangre"

✓33695 *Piper* "Cordoncielo"
 $S \pm 3$ m.

✓33696 *Peperomia*
Ep. Tree with red lvs.

✓33697 Fern. "Gordalilla"

Yanacomas
done for 1700-1850m.

227

✓33698 Orch.
Ep. ± 1.5 m. ~~fl. y. red at center~~
fl. y. red at center

✓33699 Arac.
Ara.

✓33700 Oncidium

5 pet. y., lip red, y. at center. Ep.

✓33701 Fern Thelypteris pilosa-hispida (Hook.) Alst. det. A.R. Smith, 1978
± 2 m.

✓33702 Passiflora tripl.

H.V. fls. wh.

✓33703 Elapl.

On tree

✓33704 Cyper.

un

✓33705 Anacyclium

Ep.

un

✓33706 Fern

un

✓33707 Moss

✓33708 Piper lorense

Sh. ± 4 m.; spikes ± 50 cm; lvs. like an Anthurium

✓33709 Lindsaea

ter.

✓33710 Moss.

On dec. branches

✓33711 Cyathea:

Diameter ± 9 m. high, 10 cm. diam; lvs. ± 6 m. long

Ph. - 54

✓33712 Cecropia

T ± 14 m; lvs. wh. beneath.

✓33713 Gesn.

Stem simple; fls. maroon.

✓33714 Psychotria nervosa

H. pr. black, very lustrous.

Yanacocas 1700-1850 m. sense for.

2/27

/33715 *Tycopodium*
Rastrera

33716 Moss.
On dec. branches

/33717 Fern
Growing perpendicular to the ground

/33718 *Panicum*
± 50 cm.

/33719 *Rhipidophora*
Fibro

33720 *Tuberaria*
Herb, ± sup. 60-70 cm; fls. ~~lilac~~ blue

33721 *Vernonia*
Tree vine; heads lilac

33722 *Viburnum*
Tree ± 6 m.; fls. wh.

/33723 *Vernonia cuspidea*
Tree 6-8 m.

/33724 *Wernmannia*
J. ± 8 m.; fls. wh.

/33725 *Melast.*
P.B. ± 2 m^{suffr}, stem erect; fls. in axils of lvs.

/33726 *Sciadophyllum*
Tree ± 15 m^s

/33727 *Tsotoma*
H. fls. r.

33728 Moss, wh.
Bright green; esp. on dec. logs.

33729 *Cuban*.
H. v. Fls. wh.

33730 *Befaria*
Tree ± 5 m.; cor. reddish pi. (some plants only 1 m)

/33731 *Cordia*
S ± 1.4 m; fls. wh.

2/27

Yanaconas, 1700-1850 m; dense forest

Open &

open hillside

edge of wood

dense for.

clearing
clearing

✓33732 Sol.
Hub; fls. lilac; lvs. very spiny

✓33733 Nolast.
S ± 1m;

✓33734 Nolast.
± 1m.

✓33735 Sol. Nolast.
Pcs. fl. S, F & 2 m.; fr. gr. with lilac lvs.

✓33736 Sol.
S. 50-2m; fls. y; fr. gr. with lilac lvs.

✓33737 Gibonellaria
H; stem simple; cor. purp.

33738 H; fls. wh.

33739 Stenophyllus
H.

✓33740 Pedium araca.
T

✓33741 Fern.

✓33742 Calliandra carbonaria
T ± 7m; stems bright red.

✓33743 Hub longifolia
Ep.

✓33744 Elaeagnia
T ± 7m; no fls.

✓33745 Ficus
T ± 5m.

✓33746 Selag.

✓33747 Parfaem.

✓33748 Repandopora polypyllea

Yanacomas - 1700-1850m; clearing

open hillside

Yanacomas (El Silencio) 1900-2200 m. 728
dense for.

open hillside

dense for.

Open hillside

33749 *Paspalum*33750 *Digitaria**"Orquetailla"*33751 *Gesneria*

H + sup. 30cm.; fls. r.

33752 *Centropogon*

HV; cor. deep pi.

33753 *Gesneria*

Er. &; 1-1.5m; cor. r.

33754 *Aira*uu33755 *Sauvagea*

T, + 9m; pet. wh

fruit edible

dense for.

33756 *Sisymphium*

Per. pale y

sp poters

33757 *Oxalis*

Fls. lilac.

uu33758 *Rubus glaucus*

WV; pet. wh; fr. r

uu33759 *Gesneria atrolineata*

H; fls. red, with black lines within

dense for.

33760 *Grass*

poters

33761 *Sol.*stem ^{sub} rept; on fallen. fls. wh.*"Papa sanguinaria"*33762 *Hydrocotyle*

Rept h; fls. greenish wh.

33763 *Potentilla*

Rept H; fls. y

33764 *Acalypha*

T ± 5m.

dense for.

33765 *Plantago*

poters

Yanacocha: El Silencio; open woodland

2/28

(767a)

767c

33766 *Sarcocaula liberta* C. & S.✓ 33767 *Gesneria falcata* (Lam.) (Hornb.)

H, ex; cor. r.

✓ 33768 *Begonia*

H; 30cm; fls. wh.

33769 *Peperomia*

Very small epip.

33770 *Oreli*.

Ep.

✓ 33771 *Peperomia nigra*

Ep.

✓ 33772 *Asplenium*

Ep.

✓ 33773 *Selag.*

Ter.

✓ 33774 *Laxiacis*

Vine

33775 *Oreli*.

Ter. 5 pet. green; lvs. wh; col. deep gr.

✓ 33776 *Peperomia*

Ter.

33777 *Rub. angustifolia*

W-LC

T; fr. only

✓ 33778 *Polypodium costaricense*

Ter. natal.

✓ 33779 *Hed.*

wet soil

✓ 33780 *Lichen*

Bright green above, white beneath

✓ 33781 *Solanum*

E. H., ± suff., ± 1m.; cor. y.

✓ 33782 *Solanum*

N. E. 150-1m; cor. wh.

Yanacomas: El Silencio; den. for.

2/28

✓ 33783 *Uncinia*
Ter.

✓ 33784 *Burmeisteria*
Eri. s \pm 1m; cor. green

✓ 33785 *Moss*
On lvs. of 784

✓ 33786 *Ophi.*
Refract out; fr. only

✓ 33787 *Polyptilium*

✓ 33788 *Asplenium*
Ter.

✓ 33789 *Asplenium*

✓ 33790 *Elaph.*
On fallen t-t

✓ 33791 *Hep.*
with 790

✓ 33792 *Clemaedorea*
Trunk \pm 2.3 m to infl.

✓ 33793 *Lasiacis*
High climbing, v.

✓ 33794 *trac. roots* *Spathiphyllum*
Ter.

✓ 33795 *Peperomia*
Ter.

✓ 33796 *Piper*
S \pm 1.5 m.

✓ 33797 *Besleria*
St H + sup.; erect st. \pm 1 m; Cor. $\frac{1}{2}$ in, with whorls

✓ 33798 *Arch. Pleurothallis*
Ep. 3 pet. red, deflex. at center; sp. pet. lvs. ocol. gr

✓ 33799 *Piper*
S; sp. lvs. purple

Yanacocha: El Silencio; dense forest

2/28

33800 *Pandanus*
High-climbing woody vine; spiles wh.

33801 *Gesn. elongata*
Ht 1.5 m; stem erect; cor. r.

33802 *Nyssia*.
T + 8 m; fls. w

33803 *magnoliacean* "Cabuajo"
T + 30 m; fls. sessile, purple; stems wh.

33804 *Bactris* "Chontilla"
Trunk + 2.5 m to inf.

33805 ~~Rub.~~ "Sanca de araña"

33806 *Gesn.*
Subscandent herb; buds only

33807 *Marchantia*
On bank

33808 *Ceratium* 6. □
poters

33809 Fungus
On t.
dense for.

33810 Lichen
On t.
pores

33811 *Asplenium*
On t.
dense for.

33812 *Diplazium*
Stout short thick rachis; fr. ± 2 m.

33813 *Marchantia*
On wet bank

33814 Moss
With 813

33815 *Polytrichum* sp no
On moist bank

33816 *Centropogon*
Fr S; .80-1.2 m.; fls. red

Yanacomas: El Silencio; dense for.

7/28

33817 *Diplazium*

33818 *Gesner.*
H ± 80cm

33819 *Elophi.*
On fallen tr

33820 *Pariflora praemula*

33821 *H. V.*
Cicatrina

33822 *Carluclouisia*

33823 *Helecorinia*

33824 *Piper*
Br. red; fr. y; infl. erect.
S ± 2m

33825 *Diplazium*

33826 *Dryopteris* *Thelypteris pilosor hispida* (Hook.) Aitst. det. A.R. Smith

33827 *Gesner.*
H ± 2m; cor. bright.

33828 *Gesner.*

33829 *Fragaria*
On log; red flw

33830 *Russus*
On twigs

33831 *Pilea*

33832 *Tet;* sterile
Phyllanthus

33833 S, 20-60cm; fls. greenish
Arae.
Petiole r, with wh. hairs; lvs. deep gr., whit
along midrib

Yanacunas: El Silencio; dense for.

2/28

75-10 ft

33834 *Usnea*
drooping from trees

33835 *Jesma*
H. Tr. vln.

33836 *Thib.*

33837 *Elaeagnus*
Ep.; buds red out.

33838 *Aethnium*
Ep. fr.

33839 *Aethnium*
Ep.; spine pub.

33840 Moss

33841 On t.

33842 *Oxalis*
S + 2.2 m; fat

33843 *Polyphadon*
On t.

33844 Fern
Very common at this alt., but more fat.

33845 Bromel.
Ep. buds deep green at apex

33846 *Alchornea*
T 10-15 m.; fr. deep gr.

33847 Myrt.
N. wh. T + 15m.

33848 *Vaccinium rufescens* "Laure"

33849 *Verbenia* "Verbenia"
fr. lychnisifer

33850 N.
Grass

U-15

U-15

U-15

2000
7800 m.

Yanacoras: El Silencio, dense forest

2/25

Yanacoras,
near closed
edge of woods
open thickets

2/31

33851 *Rapanea guianensis*
T ± 4 m.

33852 *Panicum*

33853 *Tolosma*
Erect h, ± 1 m; cor. r.

33854 *Cephaea*
Fls. pinkish blue; very common

33855 *Paspalum*

33856 *Cucumeris* Ph 56 Ph "Cassicaria"
T ± 8 m.; cor. wh.

33857 *Eleocharis*
Marshy ground

33858 *Nymphaea*
So. on bog

33859 *Tournefortia*
S 2.5-3 m; fls. & fr. wh

33860 *Tropaeolum*
H V; fls. bright r.

33861 *Browallia*
H; cor. bright bl.

33862 *Clusia*
T 6-7 m.

33863 *Liatris*
H erect; H ⁶⁰ - 1 m; florets y

33864 *Weinmannia*
S ± 2.5 m; fls. wh.

33865 *Tigridia pavonia*
H.

33866 *Dessaudia*
H V; fls. bright bl.

33867 *Cubidia*
Tuft. wh; S with elong. br.

Yanacocha: near school; thickets 3/1

banks
open hillside

Along stream
dense forest ± 2000 m.

El Valle: Saladito, ± 1500 m. 3/2

San Antonis, 2200 - 2350 m.
bank along trail

dense for.

bank along trail

dense for.

bank along tr.

Tulips
u 15
u 15

33868 *Sobralia* Vla
Ter + 80cm; per. wh.

33869 *Eleanthus*
Ter, + 80cm; br. pi; per. (buds) wh

33870 *Epidendrum fimbriatum*
Ter; s. sp. at, wh or pinkish; few spots purpl; lip ^{long}
33871 *Begonia?* wh.
Ter; pet deep pi to r; H + 50cm.

33872 Thib.
Br. purp. cor. wh at base & apex, pi at ends in middle

33873 Fungus
On bank, dull gr. above, which becomes

33874 *Psychotria* U-15
S + 1.5m.; cor. rich purple

33875 *Clusioides brevirostris* Vla
T, 5m; buds cream

33876 *Disterigma*
S, much branched, branches hanging over shrubs; br. pi;

33877 Rub.
T + 8m fr. only U-6

33878 *Anthurium*
Ep. U-6

33879 *Oncidium* U-7
Ep., stem elongated; 5 pet. pi; lip & wh, y-q at apex; col. wh.

33880 Thib.
Ep; long br.; calyx & cor. below deep pi; cor. above wh

33881 *Gesn. rugosa*
Br. r; fr. wh.

33882 Orch
Ep; per. greenish brown

33883 *Stelis*
Ep. fr. gr.; 3 pet. deep pi, lip & col. gr.

33884 *Orch*
Ep. slender?

El Valle: San Antonio, 2200-2350m. 31.
Rhebichets

roadsides bank

deciduous

+ 7100ft.

33885 Hypnum
drooping on tr.

33886 Hypnum.
T 5-6m; cor. pi, spotted

33887 Polytrichum.
Ep.

33888 Polytrichum
Ep.

33889 Acaena
H Br. pi., cor. wh, unspotted

33890 Asplenium
Ep.

33891 Burmeistera
H; cor. gr.

33892 ?
T ± 15m; calyx very fleshy; fls. r. fr. ep.

33893 Gesn.
H ± 80cm; cor. r.

33894 Anthoxanthum
Ep.

33895 Gesn. sericea
Tu; cor. deep pi.

33896 Ophiopogon
Ep.; buds reddish

33897 Pteris

33898 Hypnum
T; H ± 6m; tufts 8cm.; fls. wh.

33899 Dryopteris Thelypteris leprieurii (Hook.) Tryon var. 1. det AR Smith 1976

33900 Polytrichum
On dec. ft

33901 Hyp

PD

El Valle: San Antonio, ^{about 2000} 2200-2350m 3/2

unk

U-1C

33902 *Polyphoeia*
Ep.
33903 *Anacyclus*
Ep.
33904 *Bambusa*
St. long-climbing vine; scented
33905 *Gesner.*
Ter. ± 60 cm; br. y.
33906 *Orch.* col. greenish-y.
Ter. 3 ft with wh. hair, y apex, canines long; with canines.
33907 *Diplazium*

33908 *Palicourea*
Sm. tr. ± 3 m; branches infl. blue; cor. light blue with
light blue with
33909 *Anthurium*
Ep. spath. wh.; spad. reddish-p.
33910 *Chamedorea*
Trunk ± 2 m.
33911 *Brom.*
Ep; fl. bright blue; lf. 6-7 (6-7) broad wd. brown
33912 *Brom.*
Ep. Bract r
33913 *Carlucciovia*
St. Tr. ± 3 m; fr. deep pink
33914 *Gesner.*
Ep.; br. r.; buds greenish-y; fr. white
33915 *Piper*
T ± 4 m.
33916 *Peperomia*
Ter.
33917 *Cleome*
H ± 2 m; fls. purplish
33918 *Anthurium*
Ep.

U-1C

U-G

U-G

San Antonio, 2200-2350 m., deer for.

3/2

33919 *Polyphad.*
Rep. on TT

33920 *Lecan.*
Ep.; br. n.

33921 *Bomarea*
H. V., high - shrubby; fls. ^{blady} with large purple bracts
red, less. y toward clow.

33922 *Mimosa florib.*
Stem pi.; S ± 2 m., branches clay

33923 *Lantana*
Suffrument. 3.0-1.5 m.; cor. wh., pink-tinged

33924 *Acalypha*
T ± 5 m.

33925 ?
T ± 8 m.; fr.

33926 *Sol.*
Ex. S ~~±~~ 1 m.; fr. purplish-blush

33927 *Rynchospora*

33928 *Euph.*
T.

33929 *Damanya*
T ~~4~~ ~~5~~ 3-4 m.

33930 *Tillandsia*
Ep.

33931 *Ptyllanthus*
H; fls greenish

33932 *Apium*
Ep.

33933 *Ulmast*
T 3-4 m.

33934 *Hymenoph.*
Drooping from t. branches

33935 *Centropogon*
S 1.5-2 m.; cor. or, red apex

San Antonio; dense for.

on inside (only).

thicketa

dense for.

3/2

33936 *Nelastia*
S. ± 1 m; pet. w, stem y

33937 Moss
drooping from branches

33938 Begonia
Begonia

S. shrub, 30-50 cm; pet. wh

33939 *Alsophilula*
Caudex short, subterranean; fr. 5 m. l., ^{wide, stiff} ± 2 m.

33940 ~~Tree Vines~~
T 7-8 m; cor. wh

33941 orch.
Ter; fl. wh

33942 *Chamaedorea*
^{spurts} Tree, ± 8 m

33943 *Chamaedorea*
Tree, ± 8 m; trunk ± 9 cm diam.

33944 *Chamaedorea dygmalescens* ^{probably} ~~spurts~~, = 64 Ph. 3
Slender tree! 2.5 m, 2-3 cm diam.

33945 " usp.
Slender tree, trunk ± 2.5 m high

33946 Moss
On dec. log.

33947 *Inga*
T ± 10 m 8 m; stem. wh.

33948 *Neltuma peruviana*
young tr., intro.

33949 *Inga*
T ± 5 m; st. wh

33950 Orch.
Ep. 5 pet. grisly, densely lined in with deep bl., Col. green

33951 *Cannaceae*
H. ± 2 m; br. y, becoming reddish if per. fresh here, reddish after

33952 *Croton* young sp.?
Sh. n sent ± 2.5 m,

San Antonis, same for

3/2

u-1

= 62 Ph. 1 (with s.)

= 63 Ph. 2

loph

"Guabu parero"
"Ec Hatico," Hac. of Dr. Molino Gómez, 2 km, nw of Palomina
Open

un Ph. 69

"Guavino" "Guatubo"

woods

3/5

83956a. *Piper*
St & m.

33953 *Cordia argentea*.

H ± 1.4 m;

33954 *Bignonia*

woody vine; cor. y.

33955 *Bignonia*

woody vine; cor. wh.

33956 *Platadeum*

Parrot's

33957 *Piper*

~~Polyph. fimbriatum~~
Sl. ± 2 m (956a)

33958 *Bassel.*

H V

33959 *Holcus*

33960 *Lantana*

Suff. herb, ± 1m; cor. wh. 6-petaled wh.

Venturosa"

33961 *Crucif.*

Pet wh.

33962 *Echeveria*

succ. her.; buds yellowish

33963 *Och.*

Ter; 3 sep. gr, 2+ lipp. V-V.

33964 *Hibiscus* or Abut.

H ± 2 m; fls. red. (cult.)

33965 *Passifl. bogotensis*

H.V.

33966 *Asteris?* *Polyodium fimbriatum* = Alst 7410

St ± 2.5 m; cor. whit y

33967 *Pilea lindernii*

H. up. to 80 cm.

33968 *Pteracium*

H fls. or -y

33969 *Alchem. offic.*

Roots suberf.

V = to send Inst.

El Hatillo

open grassland

3/5-

woods

= Alst. 7410

Card.: Bogotacito, ± 2200 m shaded area

3/8

Salto de Tequendama alt. ± 2500 m
partially shaded
valleys

33970 *Fimbrine* (not celosia)
H; subcaulent; infl. greenish wh.

33971 *Eup.*
S 2-2.5 m; pop. grayish wh.

33972 *Salvia*
H; cr. deep blue

33973 *Cephaelis*
H. elong. branches up to 1m long; pet y "Acadera"

33974 *#Aphelia serpyllif.*
Subsp., subsp. herb; pet. rich purple

33975 *Kyllinga*
Moist soil

33976 *Begonia*
Kundi br. herb up to 1m high; fr.

33977 *Sauvagea*
T ± 5 m; pet. wh.

33978 *Comp.*
S ± 1.5-2 m; rays wh.; flor. greenish

33979 *Pilea goudotiana*
Succ. bush up to 1m

33980 *Passifl. erythrophylla*
H. v.

33981 *Valeriana*
H. v.; fls. greenish wh; fruit with ~~soffers but~~ ~~it~~ off-white

33982 *Comp.*
Buds greenish wh. S ± 3 m.

33983 *Centotheca*
Pet y

33984 *Piper*
S ± 1.5 m

33985 *Eup.*
Herb 1m ± 1m; fl. wh

33986 *Mimulus luteus* *Arenicola*
S along. br; cr. wh.
S 2-2.5 m; cr. greenish y

Salto de Segundana; partially
shaded hillsides

3/8

woods

shaded hillside

33987 *Cupr.*
S ± 2.5 m; slender

33988 *str.*
Slender herb; rays wh.

33989 *Stevia*
Flowers wh.; sup. herb 35-50 cm.

33990 *Cynhea diffusa*
Sh. long slender br. up to 1.5 m. long jpt. deep purplish-blue

33991 *resine*
HV

33992 *Ithi. cordata*
Much br. sh., branches erect; cor. tube deep bl., green apex

33993 *Bouteloua*

33994 *Psathyro*
S tot. 1.5-2 m; lvs. branched pi.

33995 *Epidendrum*
Ter. per. seg. all light green, pearly

33996 *Isoloma*
Er. sh + simple stem, to 1-1.5 m high

33997 *Castilleja*
Subsp. Shrubby; br. 1 m

33998 *Velut*
Sup. br. ± 50 cm
Sup. br.; pet. deep bl., antr. y.

33999 *Euphorbia*

34000 *Bomarea racemosa*
Hanging; High-climbing vine, upper part of stem
Sett nodes

34001 *Morinima*
S ± 50 cm; pet. deep blue

34002 *Apuum*

34003 *Geranium*
St. suberect; pet. pi.

Saltos de Tequendama

shaded hillside

318

open woods

#

open hillside

open woods

open hillside

thickets

open hillside

Un

34004 Grass

34005 Myrica pub.

T 3-4 m.

34006 Trif. filiforme

Ref. H. 1 f. 1

34007 Eleochar.

pitch

34008 Cuphea

H; slender, spirally br; pet. blue

34009 Cuphea

H. pet. deep bl.

34010 Phytolac

H ~~1.5~~^{2.0-1.5m}; fls. o fr. rich pi

34011 Carex

34012 mucorina Thueggs

~~Sacat~~ Small t., 2.5-3 m; pet. wh.

34013 Cassaria

~~± 2.5 m;~~

5 long br.

34014 Grass

34015 "

34016 "

34017 "

34018 Paspalum

34019 Cordia

S 2.5-3 m, stem ± 10 cm diam; cor. light gr, erect (in lobes) / distichous

34020 Rynchospora

Salto de Tequendama; open hillside

3/8

woods

open hillside

open hillside

4

"

34021 ~~Huts.~~ *Diphyscium*
S elong br.; cor. wh.

34022 *Mimosa lachrym*
with elong. branch;
S & cor. wh.

34023 *Weinmannia*
Sm t.; sterile

34024 Grass
Elong stem

34025 *Klaprothia*
H subsc.; flt. wh.

34026 *Bromelia*
See notes on 34000

34027 *Alternanthera*
Subsc. herb; heads greenish wh.

34028 *Scroph.*
H.; cor. light y

34029 *Passifl.*
H.V. climbing over shrubs.

34030 *Rynchospora*

34031 *Plantago*

34032 *Boehmeria rugosa*
S 50-100 cm.

34033 *Tropaeolum*
H.V.; calyx r, lobes gr; flt. stems with black

34034 *Begonia tropaeolifolia*
Sue. vine, dependent on bank

34035 Grass

34036 *Calceolaria*
Cor. y

34037 *Nyct.*
 $T \pm 4$ m fr.

Salto de Tequendama; open hillside
= shaded hillside
open woods
open hillside
Thickets
~~other plants shaded~~
open bank
Thickets
open hillside
wet bank
edge of woods

34038 *Cissampela tropaeolifolia*
HV

34039 *Poldia*.

34040 Moss

34041 orch.

34042 *Viburnum*

S ± 3 m; fr. black; fls. wh.

34043 *Sphaerole*

S ± 1 m; corolla deep blue; fr. blu.

34044 *Lig.* "utamá"

Suf. H to 1.2 m; fls. y.

34045 *Sporadendron*
5 pet. light pi; lip w; col. y. Ter.

34046 Grass

34047 Paep.

34048 *Rubus*

woody vine; fr. black

34049 *Pasif. mixta*

HV S + p. r.; corolla irreg black.

34050 *Cordia*

S 2.5-4 m; cor. wh.

34051 *Hesperomeles*

S ± 2 m; pet. wh.

34052 *Paropis*

T; calyx & st. cream wh.

34053 *Nesperomeles*

S

34054 *Rapanea*

T to 5 m

Salto de Tequendama; Thicket

Brink of falls

Above Usaquén, 9200-9500 ft; ^{bambu} along road
= 2800 - 2900 m.

3/8

3/12

34055 *Buriala tormentosa*

WV

34056 *Erycletia*34057 *Senecio* $S \pm 70\text{cm}$; fls. y34058 *Oreopanax* $T \pm 7\text{m}$

34059 Lichen

Or tingo

34060 Moss

On soil

34061 *Aech. - Macrelaria*Ter; 5 pet. greenish, pi-tinged; lip pi-spotted ^{col} y.

34062 Moss

On branches

34063 Lichen

34064 Lichen "

"

34065 *Musgo*
On soil34066 *Sphagnum*
"

34067 Lichen

On branches

34068 Lichen

"

34069 *Sphagnum*
On soil34070 *Polytrichum*
Mixed with Sphagnum34071 *Stelis*
Ep. under li

Above Ucaquine, 9200-9500 ft.

5/12

Los Gagues, below Par. de Guacat
 ± 10700 ft. (3250m)
woods

34072 *Seneio*
Tuf. - 7. S 2-3 m.

34073 *Bouea*
HV, slightly vol., climbing to 3m; sep + pet. red, petals pink
34074 *Macrocarpaea*
fr 5 2-2.5 m; cor. green, y; bracts ex.

34075 *Musa*
on soil

34076 *Weinmannia*
S

34077 *Drimys*
Sub-tr. fruit.
fla. cream

34078 *Tibouchina guasana*
T 3-4 m; fls. deep red

34079 *Culicita*

34080 *Stelis*

Ep; fer. seg. gr., slightly ^{pink} tinged.

34081 *Nymphaea*

S
34082 *Eloph.*
Ter.

34083 *Aspl. serra*

Ter.

34084 *Rhexia refracta*

34085 *Polyph.*
Rep. int.

34086 *Louraria*

34087 *Sleeria*

34088 *Hep.*
Roots of rock.

Un-P

Tina Bon

Un-P.

Los Gagues, below Par. de Guasca
+ 10700 ft.

3/12

alst.
= 7492

~~alst. 746~~

= Alst. 7490

= Alst. 7463

= Alst. 7479

= Alst. 7454

34089 Orch.
Ep.
34090 Paep.
Moist soil (Sphag.)
34091 Rhizopogon

34092 Hypericum
S 30 cm - 60 cm fls. y.
34093 moss
Hanging from branches
34094 Hymenophyllum
34095 Jamesonia
34096 Psilotum

34097 Diplostephium
Compact S, up to 50 cm; rays purple
34098 Polypodium
Hanging on trees
34099 Espeletia grandifl.

34100 Polypodium
Ep.
34101 Psilotum
Vine

34102 Eryngium

34103 Aster

34104 Grass

34105 Disynichthys
Per. y

Un. Jan 10

3/12

#

Parque de Guasca, ± 11000 ft. (3350 m)

woods

= Alst. 7489

= Alst. 7459 open

Los Gagues woods

Par. de Guasca ± 11,300 ft open ³⁴⁵⁰ (3475 m)

woods

open

~~= 7456 - Alst. 7485~~ / woods

Los Gagues + 10700 ft.

open

Un-P

~~Un-P~~

Par. de Guasca ± 11,300 ft ³⁴⁰⁰ (3475 m)

34106 Carex

34107 Rubus chilachencis

Subscrt S, elong. branches; fls pink-red

34108 Helenium

Cr. & light green

34109 Werneria

Cap. lvs flat or round; rays yellow.

34110 Acaena

34111 Epidendrum

Ep. Per. sep. all y-q, lip pi-spotted; col. pi.-marg.

34112 Orch.

Ep.

34113 Hep.

Roots of orch.

34114 Elaph.

Ter.

34115 Scleraria

Subsc. herb; hel. wh.

34116 Hypnum

Ep.

34117 Orch. (distichous)

Ep. per. pink-y

34118 Lichen

On branches

34119 Chusquea weberbaueri

St. erect 4-1.5-2 m

34120 Paep.

young lvs very hairy

34121 Moss

on bank

34122 Galium

Cr. wh. E. H.

Pal. de Quasca, ± 11,300 ft open (3400m.)

312

woods

Los Gagues, ± 10700 ft

Pal. de Quasca, ± 11,300 ft. (3400m.)

= Astor 7488

open

woods

34123 moss
on tree

34124 *Dryopteris fuscula*

34125 "

34126 *Polyodium*
Ep.

34127 *Celidonium*
S 1-2 m; cor. y.

34128 *Vicia*
Or. h., ± 15 cm; fls. pinkish blu.

34129 *Carex*

34130 Lichen
On rocky bank

34131 *Werneria*
~~Gaspilis~~ flat ground; rays ab.

34132 *Psathyrocephalus*
un - 1c

34133 *Standleya* ~~Winnemucca~~
Cor. blu

34134 Eup.
Sh. ± 1.5 m (compact) (old)

34135 *Vaccinium*
S ± 2 m; cor. wh

34136 Grass

34137 *Espeletia*
Rays y; fl. cutesible

34138 *Senecio*
Compact sh; 1.5-2 ~~ft~~ m.

34139 *Olcocella orbic.*
Subsp.

Par. de Guasca, ± 11,300 ft. woods
(3450 m).

= Alston 7453

= Alston 7486

open

± 11,500 ft. (3500 m)

Eup. *Vaccinium* foli.
is not like Eup.
from Granda valley
only 3 m

34134?

3425-m

± 11,400 ft. (west side)

3450 m

± 11,300 ft (east side)

34123 Moss
on tree

34124 *Dryopteris fuscula*

34125 "

34126 Polypodiaceae
ep.

34127 *Cedronia*
S 1-2 m; cor. y.

34128 *Vicia*
Or. h., ± 15 cm; fls. pink blu

34129 *Carry*

34130 Lichen
On rocky bank

34131 *Wernera*
Paspalum flat on ground; says ab
34132 *Paspalum* un - 1C

34133 *Stellaria* ~~Wernera~~
Cor. blu

34134 Eup.
Sh. ± 1.5 m (compact) (old)

34135 *Vaccinium*
S ± 2 m; cor. wh

34136 Grass

34137 *Epeorus*
Rays 4; pl. umbellate

34138 *Succowia*
Compact sh; 1.5-2 ~~2~~ m.

34139 *Odeonella orbic.*
Subsp.

Par. de Guasca, ± 11,300 ft. Woods
(3450 m).

= Alston 7453

= Alston 7486

open

± 11,500 ft. (3500 m)

PLANTS OF PERU

Himationaca, 90 cm. high;
white.

On ridge

un - 1C

3475 m

± 11,400 ft. (west side)

3450 m

± 11,300 ft (east side)

812

34140 Ericaceae
Corynophl. ± 2.2 m.

34141 Polystichum
On soil

34142 Vaccinium
Low S

34143 Alchemilla
Spreading h. + woolly

34144 Moss
On soil.

34145 Grass

34146 Geranium cucullatum
Ref. herb; bet pi.

34147 Alchem. aphanae

34148 Paep.
Los. smooth. Caep.

34149 Eup.
Corup. shr. 2-2.5 m., Raya wh

34150 Senecio formosus
Raya dark purple

34151 Difflugia
S; Raya lavender

34152 Ramus
Stems

34153 Puya

34154 Bonarea
Seg. red. suberect herb

34155 Veronica
Cor. bright blue

34156 Elaph. Thib.
Fr S 2-5-3 m, elong. 6 in.

Ph. 81

Par. de Gresca ± 11,300 ft. woods (elevation)

3/12

open

woods

open

u-1c

u-1c

u-1c

± 10800 ft. woods.

o

marsh

open (3475-3566 m)
11400-11700 ft Ph.

woods ± 11,300 ft (3450 m)

Los Gagues, ± 10700 ft marsh in open 11700 m

woods

34157 *Senecio*
W-V

34158 *Oxalis*
Suc. subsc. H; pet. 4
un-11

34159 *Hypoxystyle*
HV

34160 *Liabum*
HV; rays bright
un-15

34161 *Polystichum*
= Alet. 7448

34162 *Luzula*
clinging open hillside.

34163 *Begonia*
Suc. H; pet. pi.
woods along stream

34164 *Salix*
Ep.; pet. 4-9

34165 *Anthurium*
Ter.; subscand.

34166 *Marchantia*
edge of falls

34167 *Peperomia*
Ep

34168 *Bambusa*
Subcort., ~~base~~ ± 2 m, branches slightly drooping
open

34169 *Clusia*
T 15-20m; fls. green y

34170 *Ephedra angustifolia*
y; lvs. silvery white.

34171 *Heben*
open bank

34172 *Gross*

34173 *Hyphenea*
S⁴ 20-50cm; pet. y

Los Angeles, + 10700 ft. Woods along stream

3/12

34174 *Nicotiana*
Compact S, ± 2 m; pet. wh.

34175 *Melast.*
S; pet. rich fl.
un-cc

34176 *Senecio*
Compact S ± 1 m; infl. y

34177 *Melast.*
S 50-100 cm; pet. purpl., antr. y

34178 *Hypoxis*
S 20-50 cm; pet. y

34179 *Thistle*.
3 $\frac{1}{2}$ -3 m, elong. br.; cor. fr. r; whitish at apex

34180 *Bidens*
WV; rays y

34181 *Castilleja*
Br. bright red; S ± 40-70 cm

34182 *Liatris*
WV; rays y

34183 *Hypericum*
S 1-1.5 m; pet y

34184 *Acaena*
S, spreading on ground

34185 *Hyacinth*
Erect S, 30-50 cm; stems & br. erect; pet y

34186 *Eup.*
Slender S, 1-1.2 m; fls. whitish? (old)

34187 *Elaph.*
on shaded bank

34188 *Gaultheria*
S ± 80 cm, elong. subprostr. br.; fls. black

34189 *Lobelia*
Slender h, up to 1 m high; cor. blue

34190 *Senecio virens*
er. S 35-50 cm.; flowers yellowish green

Los Lagos, ± 10700 ft. open
3/12

Boqueron de Chispague, ± 10700 ft. (unexplored)
steeple (3250 m.)

3/16

open bank

steep

edge of woods

34191 *Elaph*34192 *Lycop. jussiaeae*
Sub scandent34193 *Diplostelium*

S 1-1.5 m; florets greenish wh., rays wh.

34194 *Iberoperuviana*S or smt 2.5-~~3~~ 3.5 m; pet. wh.34195 *Wenningia cornuta*

T 3-4 m

34196 *Eup. crassifol.*

S 1.7-2.5 m; florets & styles wh.

34197 *Mornina*

Er. S ± 1.1-1.2 m; pet. deep blue

34198 *Vicia*

Pet. blu; subprust. br.

34199 *Arcytophyllum*

Er. 80, 80-120 cm; cor. wh.

34200 *Befaria*

"Angulo"

S 30-70 cm; cor. bright r, paler at apex

34201 *Borreria*

Pl. sup.; elong br.; cor. wh.

34202 *Carex*34203 *Stachys*Subsp. ~~pet.~~ foli. br; cor. blu34204 *Melast*

S ± 50 cm; pet. deep pi.

34205 *Eup.*

S ± 1 m; infl. wh.

34206 *Cestrum bipinnif.*

S 30-60 cm; fls. cor. greenish wh, pinkish stolts

34207 *Gram*Bogueron de Clupague, ± 10300 ft.
(150 m)
open tank

3/16

open

thickets

open

thickets

etc

open

thickets

open hillside

thickets

open

34208 *Luzula*

34209 *Budleia*

34210 *Espelitia*

Trunk up to 20 cm; rays 9

34211 *Senecio*

Compact S \pm 1.5 m; infl. greenish

34212 *Baccharis*

S

34213 *Ranunculus*

Pet. 4

34214 *Alchemilla aphanoides*

34215 *Sisyrinchium*

Per. 4

34216 *Puya*

Los \pm 30 cm; culms \pm 60 cm.

34217 *Cestrum*

S smt. 2.5-3 m; fr. bluish

34218 *Marchantia*

34219 *Scleria*

34220 *Grass*

34221 *Pfaffia*

H \pm 50 cm.

34222 *Ophiandra*

ter; seg. pinkish wh; col. pi.

34223 *Morina*

S 40-60 cm; pet dark blu

34224 *Grass*

\pm 1.5 m; infl. pinkish red

(3150 m).
Boqueron de Chipaque, \pm 10300 ft.
open bank

34216

in open

marsh

open

thickets

↓
Meta: *Sisyrinchium* on: Chiricá (1530m)

Roadside ditch

open bank

34225 *Cordia*

H ± 40 cm; pet. wh.

34226 *Thib.*

S 1-1.5 m; cor. r, lobes pink

34227 *Salvinia filicoides*34228 *Dysoxylum officinale* (Vahl) Kunt.34229 *Jussiaea*34230 *Siphocamp*

H 25-40 cm; cor. r.

34231 *Gram*

(common here)

34232 *Lianacanth*

cor. blu

34233 *Eups.*

S ± 30 cm; flowers pink

34234 *Acalypha*.

Sut.

34235 *Messers*

T 3-4 m; pet. wh.

34236 *Pefernia*

On bank

34237 *Peyper*

Do same

34238 *Pefernia*

On branches

34239 *Glossyina* (?) *ridderiana*

On wet bank

34240 *Henrietella*

Tree 3-4 m; pet. wh

34241 *Scleria*Cundin
Meta: Huila

open

3/16

(Sectio 15)

ditch

+

partially shaded bank

open

Piponal 1800 m forest valley

Meta: 201 cm So. of Villavicencio ± 500 m.

dense palm jungle

3/17

34242 *Tococa*S or sm t, with elong. branches; ant.-injured; pet. wh, pale ^{anthers wh} pi. in; dense palm jungle34243 *Polyprop.*

on tt

34244 *Rhus*

T 3-4 m; buds pink.

34245 *Cordia nodosa* VireniaT $\frac{4}{2}$ - $\frac{5}{5}$ m, stem ^{opp. p. - downy} ~~over~~ spreading (stems)34246 *Piper*

S usually 30-60 cm h, rarely to 2 m; fr. spreading

34247 *Herronia*Sm t, 3 m high; lvs. at summit, fls. ^{on lower part of} ~~succ.~~, stem which is $\frac{1}{2}$ cm diam.; pet. red34248 *Piper*T 4-6 m, com. but only 1 pfl. seen; on log ^{longest leaf} = 13 in along stream34249 *Echlatogramma*

Ep. on tt

34250 *Picramnia*

T 3-4 m; st. single 2-3 cm diam; lvs. divar.; in stem fl. orange

34251 *Cascaria*

S 2.5-3 m, elong br.; pet. wh

34252 *Virola*

Large tree (fallen), waf. resto

34253 *Piperomia*

Dependent from branches

34254 *Habenaria* Myrt.

Large tree (fallen); buds greenish-wh.

34255 *Melast.*

Tree H.; pet. pi.

34256 *Gram*Stem erect \pm 1 m34257 *Cyper*34258 *Spathiphyllum*Ter. spath. light gr. out, white in; spec. pinkish
Common along this stream

Meta: 20 Km se of Villavicencio

3/17

edge of jungle

dense palm jungle

marshy stream bed

34259 Ericaceae
In water &
34260 Ericaceae
DO
34261 Acaule
In water
34262 Cladonia
On log
34263 Non
DO
34264 Non
DO
34265 Pithecel.
T + 10 m; calyxes cor & stamen pi.
34266 Philodendron galumense
Climbing on trees; fruit wine-col.
34267 Palm
Trunk straight, $\frac{20}{5}$ - $\frac{20}{20}$ m, 15-20 cm diam.
34268 Pandanus
WV; fr. deep r.
34269 Meli?
T 10-12 m, fr. only
34270 Palm See Separate Fruit Collection
Acaulescent; infl. at base; lvs 4 m long, pet. 1.5 m
34271 Pisonia
S + 2.3 m, with slender trunk & div. br.
34272 Rub.
S or sun T
34273 Cephaelis
S + 1-1.5 m; bran, fls. y; fr. bright blue
34274 Chamaedorea
Tree-like, ± 1.5 m; fr. fluffy
34275 Palm See Separate Fruit Collection
T straight ± 6 m high

Mata: 20 km SE Villacencio to 500 m.
Along sandy stream bed

8/17

stream bank in jungle
palm jungle

34276 Cyper.
34277 Ischaem.
H, st. ± 1 m; fr. wh.
34278 Melast.
S, along. br.; frt. wh., fr. purp
34279 Munus
On log; purple rd.
34280 Pittos. curly.
Vine? Tip. on ~~to~~ stem
34281 Berthia Berthia
Sm t; fr. black; buds cream
34282 Moss
On wet log
34283 Polyp.
on t.
34284 Olyra
1-1.2 m
34285 Phil.
Ep.; spathe red lower 1/2, purple wh up.
34286 Selag. herb. (! Adt)
Ter. (very rare) Very coel. at Fugue?
34287 Polypod.
cm-1C
on t.
34288 Xanth. dilatata
Ep
34289 Pifn
5 1-1.5 m.
34290 Renalina
Coel.; infl at base, br. r., fr. y; ^{los distilim}
34291 Melast
H; frt pi
34292 Nic. Scorpisoides
T 7-9 m;

meta: ± 20 km N Eelavicien
palm jungle

3/17

Edg. V jungle.

34293 *Nuz. albicans*

T

34294 *Aloc.*

HV; fr. only

34295 *Nimorea colombiana*

WV

34296 *Siparuna*34297 *Erucaea simple.*

Br. subsp.; fls. y

34298 *Hirtella*

T

34299 *Myrt.*

T ± 7 m

34300 *Saxif.*

T 6-8 m

34301 *Erythrina*

T 5-8 m

34302 *Pithecellobium*

T fr. wlf. brn/p

34303 *Dioscorea*

WV

34304 *Clitoria*

T 8-10 m

34305 *Bursera*

T

34306 *Pimbiostylis*

Muddy shore of pool

34307 *Mimosa*34308 *Galactia*

St purp, heel pinkish

34309 *Hyptis*

Ct pinkish wh

Eric Bee

Eric Bee

20 Km SE of Ullavicius, edge of
edge of jungle

edge of jungle

llanos

edge of woods

llanos

34310 *Panicum*34311 *Audouynia*

Corn.

34312 *Gramineae*34313 *Xyris*34314 *Rubia* (part)succulent, thick rootstock; sp. wh. fl. wh. *Miltogyne*34315 *Chenopodiaceae*

st 50 cm.; fl. y

34316 *Grevillea*

surf. spreading br. in fl. y (viscous)

34317 *Lig.*

surf. fl. y

34318 *Nyctalis*

st 30-50 cm; br. wh.

34319 *Gramineae*

34320 "

34321 "

34322 *Trichilia?*34323 *Gramineae*34324 *Polygala*

Bun

34325 *Eruca sativa*

Bun

cor. y

34326 *Eup.*

Difl. fl.

20 Km. S.E. of Vielavieccio, Llanos

3/17

34327 Phas.
St. rep.; peduncles erect; fls. purple or green
34328 Amaranth
Tuf. wh.
34329 Scleria

34330 Ruellia
Cor. pink bluish
34331 Dichromena
Br. wh. at base
34332 Zornia
Pet. y
34333 Jacaranda
T; fls. bluish (on ground)
34334 Orch.
Ep.
34335 Grass

34336 Arac.
Ep. (more slender?)
34337 Clusia
T 4-5 m; fr. light gr.; seeds red
34338 ~~Pithecellobium~~
Sor. sm t; fl. purple-black
34339 Saccoloma

34340 Visniera
T 4-5 m
34341 Chamaissoa
Surf V; infl. greenish
34342 Boccolopum
T 3-4 m; pet. brightly
34343 Chamaef.
St 1.5 m; fr. light y; esp. dark purple.

± 20 Km se Villavicencio Flavus

3/17

Ban

palm jungle

Villavicencio: roadside thickets, 5-10 km
edge of jungle, 1/2 city

3/18

Villavicencio: roadside thickets

3/18

34344 *Bidens*

H V; rays bright y

34345 *Trichanthera gigantea*

T 6-8 m; cor. greenish, pet. bright

34346 *Siphonaptera*

W V; pet. y

34347 *Cestrum*

St. Sut. 3-4 m; cor. greenish

34348 *Boutomella*

Sur. V; cor. w

34349 *Cordia*

Corolla;

34350 *Vernonia*

Suber. herb; fruits w

34351 *Brownea*

T ± 4 m; pet. bright r

34352 *Waagea*

T; Bracts r

34353 *Heliconia*

St simple, ± 2.5 m; br. r, fr. y

34354 *Acanth.*

Sur. h. 1.2-1.8 m; cor. wh, purple in

34355 *Judicia*

H 40-50 cm; cor. wh

34356 *Cascaria*

St. Sut, elong br; pet w

34357 *Piper*

much-br. sh 2-2.2 m

34358 *Nischnia*

H V; cor. w, green at base

34359 *Heliconia*

H ± 3 m; br. r, pet. fr. gr., wh afry

34360 *Phas.*

H V; pet. y. g

Vitaceae; roadside
Vitaceae; thickets, 5-10 km ^{SE}
of city

3/18

— roadside tree

thickets

Pl. 83

field

thickets

Bra

34361 *Aphelandra*
Ht. 80-1 m; cor. bright r

34362 *G. pumila*
H V; cor. pi.

34363 ~~Coccia~~ *Chamaefatula*
Subscand., suff. herb, ± 3m; sepals green; pet. y

34364 *Jacquinia*?
H V. Cor. wh

34365 *Annona*.
H V; suff. greenish

34366 *Pithecellobium*
S 2.5-3 m; branch infl. o cor. r; calyx bright y

34367 *Scroph*

34368 ♂ "

34369 "

34370 "

34371 *Gam*

34372 *Sauvaginea*

34373 *Adesmia*
Suff H; pet y

34374 ~~baccata~~ *Panicum*

34375 *Endria*
Sh. St erect, ± 2m; bracts greenish

34376 *Bromellum*
W V; fl. red

34377 *Mendoncia*
W V; cor. r.

Vellavissimo; woodside ~~bluebells~~, 5-10 km
S.E. of city

3/18

Along Rio Ocoa

Sandy ~~clayey~~ slopes of river

rocky river bed

wooded edge of river

34378 *Solaya*.34379 *Cestrum*

S or smt, 2.5-3 m; fr. black, lvs.

34380 *Cordia nodosa*

S, elong. b.; fr. wh

34381 *Vitis*

Smt; pet 49 out. wh in

34382 *Fagraea*

T 4-5 m; st. w

34383 *Mimosa*

Surf. vine; sterile

34384 *Erechtites*

H

34385 *Hibiscus*

S, ± 1 m; fl. deep pink

34386 *Pauellina*

WV, sterile

34387 *Dipharsa*

S ± 3-4 m, strong br

34388 *Psychotria brasiliata*

S or smt 3-4 m; fr. light blue

34389 *Bursera*

WV

34390 *Alchornea*

T 6-7 m.

34391 *Tetrapanax*

WV; pet. ly

34392 *Sol? Styrax?*

?

34393 *Cyathia peruviana*34394 " *Chloranthus*

= Alat, Río Ocoa wooded edge of river

3438

= Alat. 7673

rocky stream bottom

wooded edge of river

woods

1
wooded edge of river

rocky stream bed

34395 *Dymiana*34396 *Paspalum*34397 *Grass*34398 *Heteranthera reniformis*

In stream

34399 *Eup.*34400 *Calopogonium mucunoides*
HV; flt. bluish34401 *Mollugo vert.*34402 *Aneilema*

Per. wh.

34403 *Jussiaea*

Suf. h 1-1.2 m; flt. y

34404 *Jussiaea*

Suf. h, up to 1 m; flt. y

34405 *Elodea*

Per w

34406 *Elatost.*34407 *Peregrina*

Infl. at base; leafy stem 2.2 m; fl. r.

34408 *Eup.*

Suf. h 40-50 m; florets wh

34409 *Pitcairnia*

T 6-7 m; cor. gr., stam. red

34410 *Grass*34411 *Ophioc.*

HV, Cr. wh.

Río Ocoa, near Villa; rocky stream bed

3/98

thickets

rocky stream bed

Villavicencio, 5-10 km S.E. of city
marshy ground

floating in pool

muddy edge of pool

Río Guatiquia: river bed

edge of river

34412 *Cyperus*
heads deep brown

34413 *Hypoxis* Culpeper
H ± 1 m; cor. deep pi.

34414 Malvo.
Coarse bush ^{2-2.2 m.}; liv. at top; infl. on main stem; pet. r.

34415 *Pearsonia*
S 2-2.2 m; pet. y

34416 *Rhus*
H V; pet. yish - pi

34417 *Acalypha cordata*
T 8-9 m; infl. open

34418 *Passifl. quadrangularis*
H V

34419 *Piper flavaescens*
S ± 1.8 m.

34420 *Eup. alternans*
S ± 1 m.

34421 *Ophiorrhiza*
Ter; hu. pi.

34422 Moss
On wet bank

34423 *Kyllinga*

34424 *Centropogon*
H ± 60 cm; cor. pi

34425 Sol.
S ± 30 cm.

34426 *Nikamia*
W V

34427 *Cissus*
H V; infl. red

34428 *Vernonia*
W V

Río Guatiquia: stream bed

3/18

edge of river

woods along river

mud of river bed

woods along river

Bm

34429 Cornf.
Coarse h; ~~2.5m~~ ± 2.2 m; rays deep pi.

34430 Gurania
H V; fr. long-dependent

34431 Drypetes opposita

34432 Cephaelis

34433 Arac.
Ter.; spathagnum; spatix pi

34434 Hemitecia
Acaulescent; fr. 2-3 m. high; ~~not~~ ssp.

34435 Télandolia
Ep. h.

34436 Begonia
^{up to 50 cm}
Succ. th; pet. wh

34437 Grass
Up to 2 m high

34438 Xiphidium
Per. w.

34439 Psertia
J 8-9 m; cor. pure wh

34440 Melast. (Chilung)
S ± 2 m; pet. wh

34441 Salacia
Tree; infl. grayish w

34442 Vernonia
Subshrub ~~+ 2 m~~ 1.5-2.5 m; florets pi

34443 Crotalaria

Subshrub; ± 50 cm; pet. light y, streaked with red

34444 Cassia

Subshrub ± 60 cm; pet. bright y
Passifl. maliformis
H V; exocarp of fr. hard

Bra

Bra

Rio Guatiquia; woods along river

3/18

Muddy bed of river

woods along river

Vulavincens; ~~the~~ field

3/19

- thickets

34446 *Urvillea*
HV; fls. wh, fr. greenish

34447 *Diodia sambucifolia*
HV; bracts purplish blue

34448 *Eup.*
Stems pi.

34449 *Carica*
Pl. ± 1.5 m; fls. greenish y

34450 *Eup.*
Bark & styles light pi.

34451 *Madracca*
Sm t, 2.5-3 m, subsc., finely br.

34452 *Croton*
H; fls. wh

34453 *Xanthosoma*
Ep

34454 *Oroxorea*
HV (sterile)

34455 *Cuphea*
H; pet pale pi.

34456 *Acalypha*
T 6-8 m

34457 *Sergipea*
W

34458 *Paaonifl. dawsoni*,
HV

34459 *Inga guatemalteca*
J 10-12 m; fls. cr. st. wh

34460 *Phrypalis*
H; br. greenish y

34461 *Helicteres*
S; fls. red

34462 *Clibadium*
S, 2.5-3 m; infl. wh

Vilavieccio: distrito

3/19

woods along
Quedra La Cañabarra;

1

field

woods along R. Can.

Due

34463 Piper
S 2.5-3m.

34464 *Burattia*
T 7-8m; pet. y

34465 *Epid.*
Ep.

34466 *Sejania*
Surf. vine; pet. wh.

34467 *Coccoloba*
5 m sm t.

34468 *Opac.*

34469 HV; cor. y
Circum. y
See Separate Fruit Collection)

34470 *Chamaef.*

34471 *Paulownia*
surf. v

34472 *Piper*
5 m sm t., ± 3m.

34473 Comp.
S 2-2.5m; rays y

34474 *Paulownia*
W V; fls. wh.

34475 Min.?
Tree 6-8m; sterile

34476 *Coton*
S 2-2.2m; pet. wh

34477 *Strobil. cernua*
H 1.5-2m; br. gr. prov., yish dist

34478 *Phytolacea*
H. 1-1.3 m; fls. wh.; br. infl. pl

34479 *Wissadula*
Surf h ± 1m; pet. light y

Villav.: woods along R. Cañabriana

3/19

Ran

Rio Guatiquia; wooded edge of river

34480 *Caryopoma*
H V cor. gr.

34481 grass

34482 *Haintus*

H 80-100 cm; cor. yishg

34483 *Adenanthera floribunda*
St 2-3 m

34484 *Paulownia tispida*

Surf. V; pet. wh.

34485 *Nelumbo* br. y, pink at base; fruit bl
H; peduncles at base (ground), bearing 1 leaf; main lvs with

34486 *Aloc.*

H V; cor. wh

34487 *Sesbania*

W V; pet. cult

34488 *Sesbania*

Slony br.

34489 *Aphelandra tetrag.*

H ± 60 cm; cor. r.

34490 *Phyllanthus*

34491 *Passifl. auriculata*

H V; surf. y pet w

34492 ~~Tournefortia~~ *Hibiscus*

T 8-10 m; pet. y

34493 *Pityrogramma calomelana*

34494 *Miconia*

Surf. 3-4 m; pet w

34495 *P. bol.*

34496 T pr. black

Nelumbo

Pl. ± 2.1 m; fracts deep red; lvs poor

Río Guatequia: wooded banks of river
open bank

3/19

wooded banks

34497 *Costus*
Pl. ± 3 m.; fr. & flwr. r.
34498 *Dimerocostus*
Pl. 2.5-3 m.; flwr. wh.
34499 *Nyctis*
Cr. wh; subsp. n.
34500 *Elettaria*

34501 *Cesalpinia*
Supt. h. ± 1 m; pet. y
34502 *Nyctis*
H. cr. wh.
34503 *Eupatorium* *Polygonum*
Infl. pinkish wh. H; fls. pinkish
34504 *Sol.*
Shrub ± 60 cm; lvs. dimorphic; or. blm; anthers y
34505 *Panicum*

34506 *Trolloma*
H.; cr. bright r
34507 *Fam.*
^{capitata} In flwr. Give oil
34508 *Polygonum*
H V; cr. wh.
34509 *Stylosanthes*
H up to 1 m; pet. y
34510 *Desmodium*
H ± 60 cm;
34511 ?
High-climbing W V; lvs. not seen; cor. pinkish white
34512 *Lupinus*
H ± 50-60 cm; branched from base; st. purple; leaf whl.
34513 *Cordia*
S sp. t. trunk ± ~~5~~ 1 m high, 10 cm. diam; crown rounded cr. white

Rd Guatiquia, wooded banks 3/19
in mud, river bed
rocky stream bed
in mud, river bed
wooded river banks

1 to Ben! Buenavista: open bank
Ph 88 Ph-(1) Villavieja
in Buenavista: thicket
open bank
woods

East from Roqueron de Clivapue; open ²⁹⁰⁰
⁹⁶⁰⁰ ft. ^{10,300} ft.

34514 *Paeonia*
S 40-50cm; fls. deep blue

34515 *Lupinus*
Suf. herb, subspst br.; fls. deep purple - blue bluish

34516 *Valeriana*
H; flowering stem ± 80cm high; cor. wh.

34517 *Paeonia*

34518 *Peperomia*
Coel. Pa. *uncertain!*

34519 *Solanum*
Repetit h; cor. wh, anthers y

34520 *Alternanthera*
Spreading h, br. up to 1m long; infls. greenish wh

34521 *Couepia Verbesina*
~~Stell.~~, Suf V; rays whitish

34522 *Melastoma*
WV; flowers whitish; styles fr.

34523 *Umbell.*
H 1-1.5m; fls. green

34524 *Rubus*
WV; pet. wh.

34525 *Joumannia scabia scabula*
S ^{2.5-3m, along tr.} ~~2.5-3m~~; cor. pinkish wh; fr. pale white

34526 *Cordia*
S 2-2.5m; cor. greenish

34527 *Loasa* H 40-50cm; pet. wh; cor. y, 2-lipped
appendages w

34528 *Scroph. Reb.*
Cor. pi, lobes purple at base in

34529 *Cucurbit.*
H & sterile

34530 *Pipa*
S ± 2.5m

Est from Boqueron de Clipaque, 10,200 ft.

bushlets

open

Boqueron de Clipaque, 10,200 ft. open bush

3/21

Exem. Col. brought to patio of Inst. Bot.

Tolima: ^{km 45}
Guindis Trail, ^a ± 7800 ft; wooded valley

3/24

3/27 11/11

Ind BM

open

wooded valley

34531 Salvia
Stems sh along br; cor. red.

34532 Valeriana
H V; cor. wh

34533 Comp.
H V; rays bright y

34534 Pelargonium
H V; fr. red

34535 Sclaq. Lindigii Mu. ! acaen.
= Adon 7751

34536 Begonia
H up to 70 cm; buds pi.; pet. & wh.

34537 ~~Bromelia~~ granifolia Cogn.
H V; young inf. granif.

34538 Grucus

34539 Gram.

34540 Palm Ph 96-98 #2 seconds
in MB form

34541 Stelis
See Tari; seg. acc eight pink wh

34542 Maxillaria
Tari; per. granifl orange, streaked with red. brwn

34543 Polystachya

34544 Lechen

34545 Gram

34546 Opalis
H frost. branched; pet. y.

34547 Sif Saurauja
T 4-5 m. trunk to 30-40cm diam

Tolina: Huindis Highway; woodlessly

3/27

Y4-43 8850 ft. 7900 ft.
Plan 38, sandy soil.

Open bank

Plan 88 8850 ft. 2700 m
— 9000 ft. "

2750 m
8000 ft open bank

34548 *Rhusia?*
T 4-6 m; calyx green gr.

34549 Grass

34550 Eup. panophaea
Surf H up to 20 cm; infl. wh

34551 Odeia

Tet; per. or.

34552 Vacc.

Shrubby, subsp. br.; cor. wh.; infl. fr. white

34553 Polygala

34554 Epilobium
Surf. herb; pet. pink

34555 moss

on bank

34556 Lichen

-

34557 Grass

34558 Phytol.
Ht up to 40 cm; infl. rich pi.

34559 Vae.

low spreading shr; cor. wh.

34560 Eup.

S ± 80 cm; infl. green wh

34561 Salvia

Cor. deep red?

34562 Klaprothia

Surf H tip to 1 m; pet wh

34563 Rites

S ± 1 m

34564 Garryph.
Scand. shr

Tolima: *Guindis Highway*, ± 9000 ft. ^{open back}

3/27

10200 ft.

Ban

34565 Begonia
Succ. h., pet. bright r

34566 Moss
on soil

34567 Cecropia
HV

34568 Sarcostachys
surf

34569 Hydrocotyle :
HV

34570 Lomaria
#

34571 Pilea
Succ H, woody at base to 1.5 m

34572 Ophiocarpum
Ter. - Seg. pinkish red; col. green at apex

34573 Opalis emarginata
Succ. Herb, strong br; pet. yellow

34574 Sphagnum
wet bank

34575 Moss
" "

34576 Polypodium
on Tr.

34577 Diogmites
H ± 40 cm; plants y

34578 Gomphosphaerium
WV budgymnous ?; fl. o-sty light pink

34579 Thrix.
S, strong branch; br. pink; co. short (?)

34580 Myrsinaceae
WV

34581 Miconia
For compact tr ± 2 m; fl. wh. leafy. Pet.

Tolima: Almeida Highway, 10200 ft.
open

3427

thickets

open bank

Boquerón del Quindío 10800-11000 ft.
(3300-3250 m.)

34582 *Carex*34583 *Hesperomeles*

Compact S. 1.5-2 m

34584 *Rubus*

W V; pet w

34585 *Bromus*H. ^{red} fast. rich red out, pale in; pet light red fruox, yellowish, green-tinted dist. with a few purple streaks, anthers car.34586 *Och.*

Ep. per. with fls

34587 *Och. Stelis*

Ep. per. gnalls y; in very dense clump

34588 *Stelis*

Ep.; per. gnalls y

34589 *Vae.*

S up 2.5 m; much-panned branch

34590 *Coupl. Crepis*

Low H; rays y

34591 *Hydroc. grossul.*

HV

34592 *Soroph.*

Cor. blu

34593 *Och.*

Ep.; first red, mostly spotted down red out

34594 *Sol.*

Powdly, sulphur br; cor. w, anthers y

34595 *Begonia*

Surf. bush, branched sus., fls. wh

34596 *Stellaria*

HV pet wh

34597 *Ranunc.*

Reputed h; t fls y

34598 *Och.*

Ep; per. deep red

Bog. del Glaciar 10800-11000 ft.

5/27

34599 Moss
Roots on 34598

34600 Pacharia
S ± 50 cm, on dec. log; ~~fl~~ fls r.

34601 Carex spic.

34602 Grass

34603 Ech.
Ep. fls. ~~gr~~ y-y

34604 Borneo
H/V sep or r.; pet y, orange only outside tow. apex, white

34605 Tugula

34606 Scirpus
Forming a dense mat

34607 Ech.
Ep. fl. perhaps = alba

34608 Aethionema hypoleuca
Ep. on tr.

34609 Aethionema

Ep

34610 Thib.
Selv. b. cor. r - l

34611 Costa Rica
WV

34612 Bocconia Gesner.
Surf h, on dec. log; fls, calyx acor. r.

34613 Rubus
~~fl~~ WV; pet wh. yel. bls

34614 Epiflora
Ep; sig. light y, red-spotted; cal purp, green apex
Mariana
WV fruit

Bog. del. Shindis 10800-11000 ft. 3127

34616 *Morita*
floating in pool

34617 *Epid. fimbriatum*
sp. Tigr; seg. ellipt., base - spine

34618 *Ceratopogon*
Slat with erect branches ^{out, gr-wh in} ± 1 m cr. gr. strong falc.

34619 *Boronia*
V; Buds red

34620 *Dioscorea*
H V

34621 *Begonia*

34622 *Nelast*
Sh 1.5 m; pet. wh, pointed; aneth gem

34623 *Begonia*
Sur succ h.; pet. dark pi-red

34624 Lichen
Fox on tree

34625 Paronych.
Tube gr., cap. pi. ~~WV~~ WV

34626 Grass

34627 ~~Rubus~~ *Rubus*
W.V.
34628 Rub.
T 2-3 m; cor. wh.

34629 Aloc.
H V

34630 Polyph.
Ref. on bank open back

34631 Polyph.
On bank

34632 Grass

Bog. del Guadalupe 10800-11000 ft

3/27

Just below 3250 m.
10700 ft. open back

34633 *Asplenium trichomanes* (L.) Nutt.

34634 Vac.

34635 *Gesneria*

Cor. r.; sup. up to 60 cm

34636

Eq. rich pi, cul. gr., y after. Ter. $4\frac{1}{2}$ in

34637 *Gaura*

34638 *Lycopodium reflexum*

34639 *Centropogon*

S ~~1.5~~ \pm 1.5 m; cor. r., looks yish

34640 *Gaultheria*

Low s

34641 *Polypteron* Elaph.

34642 *Mourinia*

S 1.5-2 m; fls. deep blm

34643 *Palicourea*

S \pm 2 m; cor. rich blue

34644 *Pilea*

Succ. H.

34645 *Oreopanax*

S? Trn. L? young sterile plant, with ex. st. laby, are, y

34646 *Hedysarum* bumb.

H V; infl. gr.

34647 *Ruppia*.

34648 *Elaph.*

Ter.

34649 *Epidendrum*

Ter.; 5 seg. lighty, pointed at base; lip
light y, with 2 red spots in; cul. pi -

Quindio Highway, just below Bogotá, 10200 ft.
 3650 m
open bank

3/27

2450 m ,
 $\pm 8000 \text{ ft}$.
open bank

open bank $\pm 9500 \text{ ft}$.

3/28

$2900 \pm 3000 \text{ m}$.

dense for. 9500-9900

to

34650 Begonia
Succ, suff. below, to 60 cm;
34651 Mettanina
T ± 3 m; fls. rich purple; antr. ♀
34652 Weinmannia
T; less from young, sterile plant.
34653 Oropaeasy
T erect sp., leafy at summit, ± 2.0 m.
34654 Elaph.
On tree
34655 Rub. Psychotria = one of 3127
Compact S, ± 50 cm; cor. wh.
34656 Anthurium
Ep.
34657 Thib.
S, elong br. cor. red pink, wh dent -
34658 Polypodium
S 2-2.5 m; ray ♀
34659 Pilea
Succ. H. ± 1.8 m, wide branched
34660 Gunnera
Coarse H, ± suff.; infl to 40 cm long.
34661 Alchemilla orbicularis

34662 " aphanoides

34663 Pilea
Succ (?)
34664 Rhynch.

34665 Elaph.
Ter.
34666 Tropaeolum
LUV, no fl.

Brundisi Highway, 9500-9900 ft.
dense for.

3/28

Anthurium coriaceum N.E.B. det. T. Croat 1990

SV col

2952 m

open bank 9500 ft

3130 m

dry gully 10300 ft.

34667 Moss.

34668 Alga

34669 Cucurb.
Steens Mtn

34670 Moss
on bank

34671 Fern *Ctenitis biserialis* (Baker) Lellinger det. A.R. Smith 1978

34672 *Alsophila*
Caudex short; fl. ± 2.2 m.

34673 *Rubus*
Suf., frost. branch

34674 *Cardamine*
H; pet. wh

34675 *Alternanthera*
H, ± 1m; infl. wh

34676 Lichen
On bank

34677 *Cladonia*

34678 Lichen

34679 Sol.
S, ± 2.5 m; pet. wh

34680 Lichen
On bank

34681 Lich
" "

34682 Polytr.
" "

34683 *Cyathea*
Caudex ± 30 cm

Glennie Highway, ± 10300 ft.
wet rocks near falls

3128

open
wet gully ± 10000 ft.

dense for. 9500-9900 ft.

2925 ft.
open bank ± 9600 ft

2925 m.
Meadows 9600 ft.

gully

34684 *Weinmannia*
T; stemle
34685 *Aphelandra*
Stringy h ± 1.2 m; no fls.
34686 *Occhi.*
Ter. fl. only
34687 *Petrophora gossoyi*.
Sh. ± 2 m.
34688 *Spathodea campanulata*
Small tree, common on sts. of Cali
34689 *Eupatorium*
Surf. herb.
34690 *Trifolium*
Fls. y
34691 *Ceropyon* Ph-
a few fls. collected; no herb spcs.
34692 *Ceropyon*
Many fruits collected; no herb spcs.
34693 *Struthanthus*,
Par. sh.
34694 *Oreocstantus*
Par. s
34695 ? Par.
T ~~5-8~~ m; fl. y.
34696 Brom.
E.H.; per. blue
34697 *Pharsalia*
HV; fls. deep purp.
34698 *Polygonum acuminatum*
Coarse H, elong. st. to 1.5 m. long; fls. ~~pinkish~~ wh
34699 " *Lispidium*
do; fls. pinkish wh
34700 *Cyperaceae*
Young on herbs: cor. wh

Humboldt Highway, gully ± 9600 ft. 3/28
2900-3000
dune for 9500-9900 ft.
Dry hills near Cali 3/29
Cali (cont.) 3/30
Humboldt Highway, 10,200 ft. 3100
↓ open bank.
" " ^{buttocks} open bank, 9000 ft.
open hillside 2970 m
2910 m
Near Rio Caica, n.e. of Cali, ± 1000 m. 3/31
thickets

"Pino"

34701 Grams

34702 Melv.

Suf. ± 1m; fls. deep r.

34703 Qnja

T ± 9m;

34704 Qnja

T 8-9m; stems wh.,

34705 Rub.

Erect S, 2.5m; stem single, caudiflous; fls. red

34706 Moss

On bark

34707 Merrania

T 3-4 m; pet. rich purple

34708 Sol.

^{so we can} + 80cm.

H, branched toward apex, branches spreading,

34709 Pilea dentata

Succulent, t. repeat at base, branches up to 80cm high

34710 Gesner. tubulosa

H, cor. wh.

34711 Pilea pseudo-imparifolia

Stem suberect pos

34712 Conostegia

T 5-6 m; pet. wh.

34713 Difflagium

34714 Peperomia dussari

H, repeat on ground, forming dense masses in forest

34715 Moss

On lvs. of Piper

34716 Pilea pseudo-impari.v. grandif.

Scandent on t.

34717 Peperomia uliginosia

(ter very succ.)

Ph 117

Near Río Caucá, n.e. of Cali, ± 1000 m

3/31

(± 1200 m) (1180 m)

3900 ft. ~~4800 ft.~~

open

Estación Olaya Herrera, ~~4800 ft.~~ 4/2Queremal, 4000 ft. ^(200 m) forest

open bank

forest

thickets

R. Dagua Valley Chorrera de la Elsa, 3200 ft. (975 m)

wet rocky forest
in spray & fallswest of La Elsa; 2700 ^(825 m) ft.; wooded gully.

34718 *Peperomia cordata*
Succ. ter h.

34719 *Valerianum scandens*
Succ, h., v; cor. wh.

34720 *Phenax hirtus*
Surf. to 1.5 m, very shaded, underbracket stone

34721 *Cleidemia fuliginea*

34722 *Hypothamnus?*

H V

34723 *Piper*

S 2-2.5 m.

34724 *Costus*

H St ± 1.5 m;

34725 *Arec.*

Ter. Spath dark green lower 1/2, wh. upper 1/2, base 60 cm
34726 *Pachystolia macrophylla*

H, stem succ., ± 1 m; cor. wh.

34727 *Moss*

On lvs of 4726.

34728 *Tectaria pauciflora*

Rhiz. short & rather narrow

34729 *Gonzalagunia*

± 1 m T.

34730 *Trich. radicans*

Rhiz. or bark

34731 *Chamaedorea*

Trunk slender, ± 3 m h, 4-5 cm. diam; upl. 60 cm
diam below lvs.

34732 *Piper subamplex.*

S H 2-2.5 m.

34733 Selag. "corticaris" ~~Seleginella~~ *bombycinia* Spring det?

Ter.

34734 *Polypodium* cf. *callose*

Eph.

R. Brigna Valley, west of La Elba (2)
densely forested gully 2700 ft.
thickets (base)

4/2

densely forested valley

34735 *Aoflum*
Ort

34736 *Diplazium* cf. *wallacei*

34737 *Gerania*
Suf. ^{both climbing}; cor. red.

34738 *Acauthi*.
H; cor. white

34739 *Papaya* "Papayuela" *papafula*
T, trunk ± 1.7 m; fruit bright orange fr. set. Blue has

34740 *Clelocnacetus*
Herb, up to 1 m; cor. greenish y

34741 *Ulmast*.
H.; los reddish fibres., pet. wh.

34742 *Piper cordata* - *nygoza*
S 50-80 m.

34743 *Mauritia*
Sig. vine, dependent over banks

34744 *Eup.*
H. ~~to~~ 80-100 cm..

34745 *Diplazium*

34746 *Besleria apilans*
H ± 1.8 m; cor. r.

34747 *Acauthi*. *Just. divaricatum*
H; cor. wh.; H ± 1.8 m.

34748 *Pilea pteropoda*
Suf. hup 1-2 m; infl. white

34749 *Henriette viscosa*
S 1.5-2 m, very viscous; pet. wh.

34750 *Pfeffer angustifolia*
Uncult. br. S 2.5-3 m.

34751 *Sol. sinaequinatus*
S ⁸⁰⁻ 1 m; cor. w, ameli. y; fr. r

R. Orqua Valley: densely forested valley
w. of La Elsa, 2700 ft. (2)
^(825 m.)

(3) forest, 2500 ft. (760 m.)
(4) open bank, 2200-2400 ft.
..... 670-730 m

(730 m.)
forested gully, 2400 ft. (5)
Río Engáña, ^(700 m.) 2200 ft. densely
wooded river banks (6)

Malibayon 1.5 ft. (also at 2900 ft.)

34752 *Solanum pallidum*
S or sm. t; fr. red.

34753 *Cypera*
Pet. pinkish blue

34754 *Mimosa*
S ± 1.8 m, with spreading branches; stamen pi

34755 *Acalypha divaricata*
T 6-8 m.

34756 *Dichromma*
Lvs. slender

34757 *Dichromma*
Lvs. broad.

34758 *Piper*
S ± 2 m,

34759 *Cavendishia gueranei* ^(Guernal gets name from this = gueranei) Low S ± 1.5 m; br. red; calyx red then
M. deep red.
Used to rub off sex love furnish wh.

34760 *Aral.* ?
Young sterile plant, 2.5 m, leafy at apex; stem slender

34761 ~~Red~~ *Sol. glabrum*
S 2 m high; cor. wh. (or yellow?)

34762 ~~Diplazium~~ - obov. ? *Hemitelia marginata*

34763 *Paspalum*

34764 *Marchantia*

34765 *Dicranopteris* (rare!)

34766 *Pityrogramma schaffneri* ?

34767 *Ditremeya*
Suf. h.; ± 1 m; fls. y

34768 *Ficium hastatum*
H; infl. y

R. Orgua Valley; R. Engana, 2200 ft.
densely forested river bank
open

①

"
densely forested river bank

La Elba, ^{9000'} 3000 ft. open bank

4/3

34769 Blechnum

34770 Dryopteris opposita (Vahl) Urban

34771 Nucaria

 $S \pm 2.5 m.$

34772 Plun?

 $T 15-20 m.$

34773 Sauvagea

 $T 12-15 m; fls. wh.$

34774 Passifl. rubra

 $H V; fr. red$

34775 Pilea mesodonta

34776 Moss

on wet rock

34777 Gesner.

Or lobes white, tube green; los fls. beneath

34778 Tab.? Gesn.

weak herb, subspat fls. pinkish; plant viscid

34779 Pilea hypoleuca

34780 " pubescens

34781 Ep.

 $S 2.5 m; infl. wh.$

34782 Besleria lutea

~~Saf. fl.~~ S 2-2.2 m; stem simple

34783 Sol.?

 $S 1.5-2 m; fls. pinkish wh; fr. red$

34784 Gesn. anturiooides

Coarse herb, resembles Anturium; fls. yellow or yellow
or red, velvety or wavy and wrinkled

34785 Gesn.

Saf. vine; cor. wh.

R. Orgua Valley, west of La Elsa, (7) 9^o
3000 ft. ticket

4/3

dune for, 2200-2600 ft.
(8)

Gine Ben

"

shaded bank.

dense fl. In spray at edge of falls
(8a) 2400 ft.
(730 m)2000-2100 ft. (600-640 m)
Rio Blanco; rocky stream bed
(9)

thickets in clear land

34786 *Peperomia*
Repetit on old stump -

34787 *Peperomia*
do.

34788 *Habenaria*
Ter; per. pure wh.

34789 *Golomia sericea* sessile in upper lvs); cor. r.
H; becoming auff; variable in size & habit (suff. comin

34790 *Marcgravia* Eric Bear
W V

34791 *Nelast.* " "

34792 *Marant.* Coarse herb "

34793 *Helicoriza* [pet. 40 cm l; blade 19.3 cm l; 38 cm from margin to midrib on one side, 23 cm. on other (at widest point)
auff. 7.1 cm. long, decurrent; bracts deep r; peduncle 10.5 cm long

34794 *Pouzolzia Boehmeria*
S 1.5-~~2~~-2 m, much branched; stems slender

34795 *Oxalis*

34796 *Carludovica* Sup. h, ± 1m; pet. 4

34797 *Arae. hirtipes*
Sterile; scand ter. succ. h.

34798 *Lesnum*
H; cor. purple

34799 *Moss*
On wet rocks

34800 *Peperomia*
Ter very succ h

34801 *Pilea*
Ter.

34802 *Selag.* & selaginella novae-hollandiae (Sw.) Spring

(600-6400 m.)
R. Dagua Valley; Rio Blanco, 2000-2100 ft.
(9a) thickets in stream bed

4/3

(9b) open bank near R. Blanco
2000 ft.

(9c) edge of forest, 625

10 Chorrera de la Elsa, 3200 ft. (975 m)
dense forest

in spray of falls

34820 *Begonia*
Succ., erect herb, ± 50 cm; pet whl.

34821 *Lichen*
wet rocks

34822 *Cyperus*

34823 *Sol. flava*
Suf. h. ± 60 cm; cor. y., fr. red.

34824 *Lichen*
On wet rock

34825 *Pilea dentata*

34826 *Arec.*
sterile. Ter.

34827 *Arec.*
oo ~~on tree~~

34828 *Anturium*
Scandent on bank; sterile

34829 *Peperomia microphylla*
Report ~~Refined~~ ^{on} branches

34830 *Peperomia*
Report on branches

34831 *Urtica caracasana*
Small tree; trunk ± 5 cm. diam; cleft. on trunk

34832 *Solanum surinamense*
 $\frac{5}{3}$; fr. bright red; ~~fr.~~ cor. light green; stem glandular

34833 *Anturium*
Ter.

34834 *Trich. radicans*
On bank

34835 *Bromel.*
Ter.; fr.

34836 *Bromel.*
Ter. Bracts 2; pet. red, fr. at apex

N. Dagua Valley; La Elsa, ^{about} 3000 ft.
open hillside

(12) Rio Engana, 2200 ft. (670 m.)
densely forested river bank

34837 *Lasiacia*
Av. with elong br. 2-2.5 m. long.

34838 *Occh.*

34839 Ep.; per. purple
Psallicia congestiflora

34840 *Costus*

34841 Sep. purple; cor. greenish y
? Tree; buds greenish

34842 *Dydiocotyle*
Refract h.

34843 *Acalypha*
Tree 8-10 m; infl. green

34844 *Polyp.* fl. purple.
On bank

34845 Palm ^(With aerial roots)
~~8 cm diam~~ +2.2 m; thin fibrous bases
Trunk ± 3 m, with rings about 4 cm. apart up to

34846 *Occh.* 1

Ep; buds yellowish gr, fl. at apex

34847 *Pefenaria* un.
Ter. leaves thin!, not succ.

34848 *Cleome* pet. deep r., pedicels fl.
8; stem erect ~~±~~ 1-1.5 m. tall, ± 4 cm. thick

34849 *Passifl. Chelidonium*
Serrule; H.V.

34850 *Dyplazin*

34851 *Pteris*
Root thick, subterranean

34852 *Pavonia*

34853 Suf. h; 60-1 m; pet. wh.
Crenosperma
Wet bank

R. Ojuela Valley, Rio Engaña, 2200 ft
(620 m)
(12) densely forested river bank

4/4

34854 Gesner.
H; cor. tube wh., lobes blue

34855 Asplenium
Wet bank under falls

34856 Hep.
On branches

34857 ?

34858 Moss
On rock

34859 Calydoraceae
Stem ± 60 cm.

34860 Colomnea cor. yellowish (? variegata)
In. sup. li; br. light gr.; lvs. red at margin (seen).

34861 Colomnea
Ter; lvs. green beneath; bracts red; cor. y

34862 Lycoperdaceae
Co Ch. 7

34863 Moss.
Coll. Duran

34864 Peperomia
Ep.

34865 Peperomia
Ep.

34866 Peperomia
Ter; lvs. very fleshy

34867 Peperomia
Ep.

34868 Peperomia
Ep.

34869 Peperomia
Ep.

34870 Eup.
H ± 2 m; infl. white

R. Ojina Valley; N. Engana
± 2200 ft; (12) (12)
densely forested river bank

4/4

Along road (escape?)

(13) La Margarita, on R. Ojina, ± 2500 m. (60 m)

34871 *Cordia*

S ± 8 m T, 3.5-4 m; trunk 6 cm. diam.; fr. red.

13 P. Dagua Valley; La Barranca, on R. Dagua

(13) ± 2600-2500 ft. (760 m)

414

34872 *Eucharis*

Per. pure wh.

34873 *Gram*34874 *Sol.*

S ± 2 m; cor. wh.

34875 *Eup.*

S 2.5 m; florets & style fl

34876 *Malv.*

H ± 50 cm.; pet. y

34877 *Fuga*

T 6-8 m; cor. greenish wh; stems wh

34878 *Circumb.*

HV ripe fr. red

34879 *Dryopteris* (cf. *andreae*) (Sod.) C. Chr. Blk. bas.34880 *Circumb.*

HV; cor. y

34881 *Dryopteris pachypora* Stev. Blk. ! Ostrom
new to coll.34882 *Polyph.* (aff. *occidentalis*)

Ref. on T.T.

34883 *Adiantum macrophyllum* Sw. Blk. bas. !34884 *Rub.*

Tree

34885 *Trich. sphenoides* Kunze

on T.T.

! Ostrom

34886 *Biophyllum*

Pet. fl

34887 *Adiantum concinnum* ~~W.B.~~ Willd.

14 P. Dagua Valley; La Barranca, on R. Dagua

(14) ± 3000 ft. open

415

(900 m)

2800 ft.

thickets

open 2500 ft (760 m)

2600 ft.

Thickets 2500 ft. (760 m)

Vegetation dense forest (760 m)

34888 *Aphelinus*34889 *Polyppodium occidentale* Christ !
"Alata" "Jen"34890 *Ruellia*

Cor. pink

34891 *Palaeoimma*
H 6-8 m; branches of infl. y; cor. r.34892 *Fittonia*
Lvs. strongly variegated with wh. above34893 *Centropogon*
S; cor. r..34894 *Urera baccifera*
S Erect st 1-2 m; fruit pi.34895 *Sol.*
Recept. ^{text}; cor. wh., antr. y34896 *Phyllanthus*
Slender herb34897 *Passifl. corniculata* Juss.
H V; slender34898 *Pavonia*
H ± 90 cm; fl. at. y34899 *Lindernia*
H. cor. light blue or dark blue34900 *Nelumbium*
Pl. ± 2 m. high, fl. 4 in lvs w $\frac{1}{3}$, red recept., per. y.34901 *Elytraria*
Cor. pinkish blue34902 *Cordia* cor. wh
S ± 4 m, stem 6-8 cm. diam, knoths & twined apes.34903 *Salpig. Selaginella novae-hollandiae* (Burm.) Spring
Blk. lvs,34904 *Piper*
L. 3 m.Río Orgua Valley; La Margarita or
R. Orgua, 2500 m. (7600 ft)

✓/5

field clearing

↓ done for.

field clearing.

done for.

34905 Palm "Chontodoro"
Tr. eaten; taste like chestnuts
T 6-7 m, trunk with long black spines; fruit on ground

34906 Orch.
Ep. (nospec.) fruits taken for Fairchild

34907 Polygala
Fls. bl.

34908 Dicranopteris
very rare; coll. by Lehman

34909 Fuga
T. 5-6 m; stamens white

34910 Fuga
T $\frac{1}{2}$ -5 m; "

34911 Orch.
Ep.

34912 Brom. dryandinae

34913 Sobraea col. unk. Rarely seen with
Ter. 3 $\frac{1}{2}$ m; green gr., 2 light purp., pale at base, lip. wh., purple

34914 ? Tree, 4-5 m; fr. red, spherical

34915 Melast. quadrangularis T, 3-4 m; pet & stem styles purple, pi.

34916 Selag.
on banks

34917 Gesner. cordato-bractea Ter,

34918 Rub?
T 5-6 m; infl. green

34919 Cissarea T 6-7 m; ripe fruit purple with blads; br. infl. white

34920 Melast. caroliniensis T 3-4 m; fr. red pet. purple w/ transparent

34921 Calandrinia Ep.; infl. deep green

Dr. eaten; taste like chestnuts P. Dajira Valley, La Elsa 2900 ft. (880m) 0 in.

La Margarita 2500 ft. (600m)

La Elsa, open bank (880m)

El Valle: El Salado, 3500 ft. edge of woods (800m)

Cali - ~~Strewn~~ in yard

(Mus. Orgánico, adan)

4/7

4/12

dense forest

edge of forest

34922 Melast
Ter. la, pet wh; fl. white
34923 Rhynchospora

34924 Sciridophyllum
T 2.5-3 m; lvs & infl. at sumt
34925 Cephaelis
S 70-80 cm; br. bright red; cor. y
34926 Cyperac.

34927 Rub
T ~~6~~ 6-7 m; fr. purplish brown

34928 Melast.
Apparently a vine; thin stem long-dependent from high tree

34929 ?
Parasite

34930 Arec.
Ep. Spathe light gr, spadix y-g

34931 Curcul.
H V; sterile

34932 Calathea?
Ep.; per. rich pi, paler at base

34933 Eup.
Ep

34934 Adonis
Ep.; br. bright red

34935 Thibaudia
Ep.; spathe wh, greenish at base

34936 Sabicea
Br. green, per. pi; S 2.5-3 m.

34937 Guttif?
T

34938 Acanth
Fr. S ± 60 cm; br. gr.

El Valle: Along highway 10-15 km e. of Boquete
dense forest

4/12

open swamp
dense forest

34939 *Melast.*
Sm. tr., with elong. br.
34940 *Do?*
Tree; but is it fruit or gall?
34941 *Arec.*
Ep.
34942 *Arec.*
Ep.
34943 *Hymenophy.*
On branch
34944 *Hep.*
Do
34945 *Piles?* *Melast?*
At base of tr
34946 *Gesner.*
Ep. Cor. tube gray wh, lobes deep pi.
34947 *Arec.*
Ter. Spathe gray gr., spadix purplish br.; pr. red
34948 *Anthurium*
Ep.; st. - - - - " "
34949 *Haem. Columnae*
Ter. Lvs with red spots in axils; nerves in upper half; cor. or. - r.
34950 *Columnae*
Ter; lvs - - - - upper 2 pairs of mm; cor. or. red.
34951 *Columnae*
Ter; apex & margin of lvs purplish red; cor. y
34952 *Bromel.*
Ep.; fr. blue, pale distally
34953 *Malp.*
Tree; fr. y
34954 *Trichomanes*
On T
34955 *Thib.*
Ep.; ^{along branches}; cor. red; old calyx white
†? see if tree are fl?

El Valle: Along highway 10-15 Km e.
of Buenaventura; dense forest

4/12

Buenaventura Bay; mangrove swamps

4/13

? See if tree are fl?

34956 *Musa*.
On branches

34957 *Gnidia nocturna*
^(appressed)
Ep.; 5 seg. light gr., lvs. col. wh.

34958 *Ostrea Tiliastylis*
Herb, repeat on ground and on small tree-bunches
fruits orange-yellow

34959 *Malp*
Tr. 3-4m; pet. light fl.

34960 *Oreli.*
Ep. fr. only

34961 *Laplacea* ?? See Separate Fruit Collection.
"Pinnel"

34962 *Algar?*
On branches of 34959

34963 *Syzygium*
Ep.; cor. vel.

34964 *Pavonia*
S 3-4m; frt. yellowish

34965 *Piper*
S 1-1.2 m., br. divar.

34966 *Olae.*
S 3-4m; pet. purplish brown; fr. brown (mature)

34967 *Artocarpus scandens* Arac.
Seabent on trees; spathe purple, floral wh.

34968 *Dimorphandra*
Tr. 12-20 m high; bunch up to ¹⁸ cm. diam; infl. wh very common

34969 *Epid.*
Ep. fr.

34970 *Tiliacaria*
Ep. per. rich purple, whitish at base

34971 *Ziziphus*
On branches.

34972 *Rub.*
Small t; fr.

El Valle: Biventura Bay; mangrove swamp

4/11¹³

34973 *Occhi.*
Ep.; fls. pinkish wh.

34974 *Aerostichon*
Trunks 2-2.5 m. long

34975 *Caladium* stamens wh.
Ep.; leaves often in pairs in clusters with flowers at base;

34976 *Eleanurus*
Ep. (fruit)

34977 Hep.
On # 34975

34978 *Griegia variegata*
Ep. lvs. variegated purple-green; br. red, fls. yellow

34979 *Aethrinum*
Ep.; spadix purple.

34980 *Quintinia*
do do.

34981 *Aethrinum*
Ep.; spathe deep gr; spadix pinkish gr.

34982 *Melast.*
Tree 3-4 m., with elong. br.; pet. wh; aest. y-q

34983 *Hib.*
Woolly Ep., elong. br.; cor. r.

34984 ?
S, 1.5-2 m; fr. pink

34985 *Aethrinum*
Ep.; spathe gr; spadix deep purple upper half, pinkish purple lower

34986 *Rub.*
S in shrub, ± 3 m; cor. green, lobes deep gr.

34987 *Coussinourea*
T, 3-4 m, trunk ± 15 cm diam; fls. wh

34988 *Rub.*
Ep.? bracts off red

34989 *Polypodioides*
On tree

El Valle; B'ventura Bay; mangrove swamp

4/13

Mangrove swamp along lava
R. Dagua

4/14

34990 *Nyct.*34991 *Sobralia*

Ep. & stem 1-1.2 m. high; per. wh.

34992 *Sobralia*

5 esp. 4-9 in, r-bronze in; lvs

34993 *Arc.*

Ep; stem 80-100 cm.; 7-8 in. out, wh or purpl. in; col. light y

Subsc. on trees; spaths of shape & color of lvs; specif white

(change part of 49675 this)

34994 *Thib.*

W. Ep.; cor. red

34995 *Psychotria*

S 1.5-2.5 m; cor. wh; fr. bright blue

34996 *Gesner. commun.*

WV; cor. red out, reddish in, lobes 1 at center, y-gating

3

34997 *Gouagalagua*

S, 2-3 m. stems slender, br. spreading; cor & fr. wh.

34998 *Polypholium lanuginosum*

3

Rep. on T

34999 *Calathea alba*Ter; fr. pure wh; lvs red base, gr. at margin ^{opposite base} along costa above35000 *Triolaena*

dark green or purple above

35001 *Nicoria theagyna*

Ter; lvs. reddish pink; pet. tube pubish wh

S 2-3 m; fr.

35002 *Melast. elongata*

Subsc. sh, elong. br; fr. reddish brown

35003 *Hep.*

on br.

35004 *Moss*

do

35005 *Adiantum caeciliorum*

11

Ter.

35006 *Pholid. psychotriifolia*Subsc. ter brach, forming tangles; spaths green in lower
1/2, white dotted; sh. after half.

El Valle: B'ventura Bay; mangrove swamp

4/14

4/13

El Chocó: Negra, forest along R. San Juan

4/17

35007 *Pungas*
Pl. wh.; on dec. branches

35008 *Sauvagesia*
Suf. herb; st erect 35-50 cm; br. r., cor. y

35009 *Nemastelia*
S; buds r.; pet & st. pinkish

35010 *Cephaelis*
Fr. S 80-100 cm; invol. r.

35011 *Adiantum*

35012 *Pilea imparifolia*
Rep. on ground on lower part of t.t

35013 ~~Trichomanes~~ Moss
Rep. ~~on~~ on br.

35014 Rub. *Psychotria leucophylla*

35015 *Psychotria guianensis*

35016 *Gesn. pseudocomm.*
W.V.; cor. wh. out, yor. in; = 4996, but pedicels slender, calyx

35017 *Asplenium tenerum*
on t.t

35018 *Piperaria*
Rep. on t.t

35019 Rub.
Fr. sh. + 1 m high; purple fr. br.

35020 Lyngbya var?
on t.t

35021 *Pilea cilioladensis*
Ter, subsp.; hairs erect on upper leaf surface

35022 Gesn.

35023 Selag.
Ter.

El Choco: Negria; forest along R. San Juan

4/17

35024 *Colomnea hispida* Los wild along margin of tip; ^{climbing green} El Chico: Negra, forest along R. San Juan 4/17
ep.; cor. yellowish pi, lobes deep red at center

35025 *Piperomia*
Rept. on tr; lvs. fleshy, appressed to branches

35026 *Cephaelis* 1
S ± 2.5 m; br. deep pi.

35027 *Polypodium elongatum* ~
Rep. on t t

35028 *Polypodium leptochiloides* 3
On T; sterile

35029 *Selag. haematoxylon* (Kunze) Sprng ~
on t

35030 *Passiflora biflora* 2
H V. sterile

35031 *Costus*
Ex, smooth herb, ± 1.5 m; br. deep r; out. per. lighter, thin

35032 *Rhizobium suborbiculatum* 1
Rep. on t t

35033 *Audtum* 3
dv, Spatho. grn-gr; spath. dark gr; young fr. 4-9

35034 *Piper*
S 1.5-2.5 m. high

35035 *Colomnea*
On tr; lvs. red ^{blotched} beneath in upper pair green; calyx r, cor. y, pi.

35036 *Irocochilea* 1
Ep. appressed to t; buds wh.

35037 *Polyphadion*
Rep. on t (fr. in 2 rows)

35038 *Scroph.*
Succ. lumb; cor. wh.

35039 *Pilea*
Succ. lumb; cor. wh.

35040 ? *Smilax* "Lansapariela"
WV; stems & roots used for rheumatism

See Separate Plant Collection

Bebedó; clearing ^{60m}
shaded bank

Aktagoya 60 m

4/20

35041 *Policourea guianensis*
S 2.5-3.5 m; br. opp. red; cor. bright y

35042 *Nicoria paniculata*
J 3-4 m; pet. + st. pinkish wh.; fr. purple

35043 *Blabesia scandens*.
WV; fr. reddish br.

35044 *Psychotria bracteata*
S 1-5-2 m; cor. wh.; fr. bright blue

35045 *Cyphostelma tormentosa*
S; st. erect ± 1 m; br. red; cor. y

35046 *Farama*
W.V; cor. wh.; fr. deep r.

35047 *Lobelia*
Low S; fr. blackish; pet, stam & sty. pi

35048 *Piper*
S 2-2.6 m, with long, subs. br.

35049 *Eschscholziana*
Ef. on t

35050 *Trichomanes umbellatum*
on t t.

35051 *Colomnea angustisepala*
Ter. Sep. l. + 1 m; calyx 2; lobes green-felted in ^{cor. pinkish red; lobes green-felted in} (Not yet typed)

35052 *Dryopteris*
Ter; frond 1.5 m. long, mid. r. tips ± 75 cm

35053 *Alectruce*
Pepos

35054 *Peperomia paniculata*
Ef.; lvs. slightly arc.

35055 *Polyph. brasiliensis*
Ef. on t t

35056 *Dryopteris*
Ter.

35057 *Solanum*
Subsh; cor. wh; anth. y

El Choco: Andagoya, ⁷⁰⁻¹⁰⁰ m; second growth for.

4/20

35058 *Piper*
Stems br.; S 60-100 cm. rarely 25 cm
35059 *Clidemia caulisflora*
S 2-2.5 m; calyx cream; pet wh.; fr. r.
35060 *Culcetium*

35061 *Peperomia elongata*

Ep. Sec.

35062 *Piper*
S part 25-30 cm.

35063 *Polyp. laeviuscula*
Rep. MTT

35064 *Piper*
S 2.5-3 m.

35065 ~~Polyp.~~ *Daphne*
Ch. Stems

35066 *Flab.*
Ep.; br. wh.

35067 *Brom.*
Ep.; los in dense clusters; fr. only

35068 *Palm*
Tr. 3m high, 15 cm. diam, long spms; infl. ± 30 cm. below

35069 *Cordia canyam ferrug.*
S stem slender, t 2-3 m. long, branched; cor. wh.

35070 *Hypothecia*
14+ sap... up to 1.5 m; cor. wh.

35071 *Hypothecia*
Stems; cor. wh

35072 *Hamelia*
S 2-2.5 m; cor. r.

35073 ~~Stachys~~ *Dichromena*

35074 *Stachyglapheta*

Sap H up to 1.5 m.; cor. blue tube wh, limb blue

Andagoya: ^{10-100'} second growth for-

4/20

clearing

35075 *Halesia*
Per. wh

35076 *Flitellaria Spathiphyllum*
Ter. spath. wh; spadix cream

35077 *Lah.*
H.; lvs. variegated above; cor. dark blue, lower lvs. pale

35078 *Bignoniaceae*
High climbing W.V.; cor. pink, wh at base (fls. orange)

35079 *Gesner.*
Ter; cor. yellow

35080 *Glicinia*
S 2.5-3 m.; pet. o. streak

35081 *Suriap*
Bl V; buds greenish

35082 *Trichomanes*
Ter

35083 *Besleria*
Ep.; stems 1-1.5 m long; H.R.; cor. y

35084 *Dyaphlebia*. *Cyclodium triance* var. *chocoense* A.R. Smith

35085 *Piper*
S ± 3 m

35086 *Piper*
S ± 2.5 m

35087 *Arac.*
Ter. Herb; stem ± 30 cm; infl. drooping; lvs. variegated

35088 *Anthurium*
Ep. fl. or. spath. light g

35089 *Piper macrophyllum*
Coarse herb. lvs. thick; fl. w; cor. greenish wh

35090 *Jaliciunum filipes*
S ± 2-2.5 m.

35091 *Anac. trifolia*
Ter. Spathe y, drooping; spadix pink wh

Andagoya 70-100m cleaning

8/20

second for.
lower Condoto River 100-150m
cleaning along stream

second growth for.

decoys for.

un

un

un

35092 *Cephaelis*
S 2-2.5m; br. gr.
35093 *Cyclanthes*
Pet. 1.5m long; ped. ± ~~1m~~, 50-75 cm
35094 *Psychotria buxifolia*
Eg. S, ⁵⁰ 800m; fr. bright blue; cor. wh.
35095 *Pourouma*
T 80 8-10m.
35096 *Calathea* un
H ± 1.5m; lvs. l. been; flwr. wh
35097 Palm
Lvs. 2 m. long,
35098 *Neurolesta multiflora*
S ± 3m
35099 *Chileocarpus bicellula*
Suberct. ± 2m; pet. pi; plumb wh; anthers light y
35100 ~~Strob.~~ *Clavigera*
S; stem simple, ± 2.2m, 3cm diam. fr. or - r.
35101 *Spigelia*
Fls. rich pi; fr. black; H 60-80 cm.
35102 *Marila*
T 3-4m; tr. simple, ± 1cm diam; lvs. o. infl. at summit.
35103 ?
Tr. ± 4m, sterile; lvs. numerous, largest ± 80cm long
35104 *Pholid.*
Ep. Spathe w
35105 *Peperomia* un
Rep. St. out
35106 *Jesuina. hispida*
Ep.
35107 *Cissampelos* un
H V
35108 *Vernonia*; un
W V; florets purple.

Audagoya: dense for. along lower
R. Condoto 100-150m

4/20

2nd growth for.

35109 *Diodia*
fls Pet. pi

35110 *Pilea*
Ter., subc. herb, rep. at base, stems up to 40 cm.

35111 *Pholid. marginata*
Rept Ep.; infl. at base of lvs; spathes y

35112 *Pholid.*
Ep; mature infl: spathes green at base ^{spatip petiole} cream above

35113 *Pholid.*
Cf. above; infl. much smaller but in fruit! (Mixed from label)

35114 *Coldmasperma*
light
cor. y - ~~the~~ wet bank

35115 *Costus*
Ex. H ± 1.5 m; fr. deep r.

35116 *Rub*
Elanders s, rep. to 1 m; buds gr. - y

35117 *Pilea seemannii*
Ter., subc. herb, rep. at base, lax br.

35118 *Diodia*
Subrep. ter herb; pet. pi; lvs red ven

35119 *Caludovia*
Rocky stream bed

35120 *Ochthoecia*
Ter.; base of stem long-reptent

35121 *Piper*
S. ± 2 m

35122 *Dicksonia*

35123 *Cibadim*
S; flvts wh. "Salvia"
flvts wh. Stem & lvs used as f. p.

35124 *Diplazium*
Gnt t

35125 *Acridit*
Ep; per. very fleshly, green, lined
in with dull red; col. y - q. ^{to life} ~~color~~

lower
Ardagoja; dense for. along R. Andoto
160-180 m.

4/20

along heavily forested banks of
small streams

clearing along stream

clearing

4/22

Guacharo
Río ^{on side}; dense forest
125-180 m

35126 Grass
Stenotaphrum ~~Kott~~ & Stolzifex.

35127 Thib.
 Par; br. pink

35128 Hemidiodia
 Caudex + 20cm. high

35129 Anthurium truncatulum
 Sp.; spadix gr.; spadix light yellow

35130 Diolena pilosoides
 Pet. y

35131 Solanum
 H; cor. lobes pinkish green; antr. y

35132 Iresine
 Plant 2.4m long, stipe 80cm.

35133 Colomera flava
 Ter. stem ~~+ 80-120cm long~~; br. y & cor. ~~yellow~~^{yellow} ~~closed in~~^{open out} 3d or 2d per. yep. leaves ven.

35134 Renalmia
 Infl. or

35135 Adiantum

35136 Cyper. neotropicalis

35137 Colocasia Marant
 Per. wh. Plant + 1.5 m high

35138 Polyp. costaricensis
 Lef. on t

35139 Scler. flabel.
 Ter.

35140 Anthurium caladioides
 Ter. spadix gr. wh. spadix w

35141 Moss
 In lvs of Marant

35142 Sansevieria
 Plants dropping from branches

Audagoya: ~~Guanabacoa~~ ~~Guarapo~~ ^{ridge}
~~sun forest~~
 1200-1800m

35143 *Anthurium*
Lip. spath deep gr. fr. brown

35144 *Cyperus*

35145 *Frichmannia* fimbriata

35146 *Rub. stenoropala*
Stems up to 80 cm; Calyx white with.

35147 *Rub. do. rugosa*
H. br. green; lvs strongly bullate

35148 *Cremaspema*
Wet bank; cor. y

35149 *Frichmannia*
Lept. rett

35150 *Piperomia minutifolia*
do

35151 *Fimbristylis*
On log; rad on both sides

35152 *Mabea*
Tr. 5-6 m; elongated br.

35153 *Orech.*

35154 *Epi. per. pi (young)*
Frich.

35155 *(Palme) Chamaedorea*
Trunk 2.5 to 3 m; ± scandens; lvs + pet. + 60 cm

35156 *Moss*
On lvs of 35155

35157 — *parviflora*
Sm. tree; buds cream; fr. flesh

35158 *Myrsinaceae*
S 3-3.5 m; buds cream

35159 *Icoca*
S 1-1.5 m; infl branch only; fr. deep purple

Andagoya, Quebrada Guarapo; elev. 1200-1300 m. on ridge

4122

35160 *Piper*
tree, 5 m high, trunk ± 8 cm d.

35161 *Hap.*
Densely covering logott

35162 *Lauria*
excl. ^{out}
Caulifl. ± 20 cm. high & 4 cm. diam. sterile

35163 *Nyssia*
S; fixed

35164 *Dryopteris* *Thelypteris valdepilosa* (Baker) Reed
Caulifl. ± 15 cm

35165 *Trichomanes*
n. t.t.

35166 *Nicoria*
T 3-4 m

35167 *Amstrolaria?*
WV (stem only) mixed with aquaducts caused to place
"Saragosa" ⁱⁿ

35168 *Och.*
sp.; buds cream

35169 *Mapana*

35170 *Gesam*
out.

35171 *Och.?*
Saprophyte? apparently ~~bivalve~~ fr. cream

35172 *Moss*
On dec. log

35173 *Cypr*

35174 *Rub*
T 3-4 m

35175 *Rub*
T 6-7 m; bracts cream; cor. wth

35176 *Asplenium serratum*
Ep

Audagoya; Dschunda ^{sunlight}
1200-1500 m *semi forest*

4/22

35177 *Meschartia*
On dec. log.

35178 *Drimys*
Ter.; fl. white

35179 Moss
On dec. log

35180 *Rubus microcarpa*
J, 5-6 m; fr. blackish

35181 *Erica*:
Ter.; spathe light gr; sepalis 7-9

35182 *Guzmania pilosa*
H & V sterile

35183 *Aechmea*
Ep. S 05 gr.

35184 *Drimys*
Plant pink, funnel-shaped l. On dec. log

35185 *Drimys* ^{some, white bwn.}
Plant mahogany-colored; Ter.

35186 *Tirolanum* ⁱⁿ
Ep. Br. deep red; fr. blackish

35187 *Rubus*
Ep. br. light gr; Dor. tube deep bl, lobes culm.

35188 *Cyathodes*
Ter.; per. greenish wh

35189 *Carludovica gigantea*
Ep; fl. bl.; los ariares, flabellata

35190 *Paracua*
S young fl. greenish wh.

35191 ~~Cephaelis~~
Cephaelis
Cf 5092; S 2.5-3 m; cor. wh

35192 *Cyathea squamaria*
Cattley ± 30 cm hor, 3.5-4 cm diam; fr. 75-90 cm

35193 *Rubus Coriaceus attenuata*
S 2.5-3 m, buds bl.

Andagoya; dense for. on ridge along Huila
400-600 ft. 120-180 m
Guarapo

4/2+

35194	<i>Lindsaya</i>	
	Ter.	
35195	<i>Gynnidomorpha</i>	
	Ter. o Ep.	
35196	<i>Rub.</i>	
	Suf herb; cor wh	
35197	<i>Sclag.</i>	
	On bank along stream, rather open	
35198	<i>Acaanth.</i>	
	H ± 75cm; cor. bright pi.	
35199	<i>Psilotoma longiflora</i>	4
	Fls. wh.	
35200	<i>Verb.</i>	2
	H V; Calyx lobes wh.	
35201	<i>Geen.</i>	3
	WV; cor. wh	
35202	<i>Solanum</i>	7
	Sur. t, 3-4 m	
35203	<i>Solanum</i>	3
	WV; cor. wh, antr. y	
35204	<i>Scleria</i>	5
	Wetland	
35205	<i>Passiflora</i>	4
	H V silicle	
35206	<i>Celast?</i>	13
	J; pet. quin y, red twinged	
35207	<i>Bromelia flavo-nigra</i>	
	Ep; bracts infl. & br. red; fls. y	
35208	<i>Moss</i>	
	On t	
35209	<i>Mitidophyllum</i>	
	Rp. on t	
35210	<i>Arch</i>	
	Ep.; infl. red	

4/22

Audagoya; dense forest ~~on ridge~~ along
Ribe. Guarepos 1200-1800m

open bank of ~~Guarepo~~

Tado' 90m n of Rio San Juan

forest ~~thickets~~ along
~~edge of~~ ~~valley~~

Río Sayagues Yerací 200-275m.
Camp. I; in open

4/24

edge of
monkey station ~~bank~~

dense forest

✓ spec Yerací (acc. to Bracken), tree name of the
stream entering S. Juan at Camp. I forming valley
to west of ridge on which these collections
were made. Whole region called Cercobando (but
such spelling)

35211 *Dicranum tristis*
Ter; pet. pi.

35212 *Polyptilum angustissimum*
On. CT

35213 moss
On. CT

35214 *Tern. platyphylla*
Ter.; fr. deep red.

35215 *Eus.* los red in upper veins but
Ep.; br. red; cor. light y; lobes red in.

35216 *Eus. angustifolia*
Ep; Calyx lobes greenish wh; cor. y

35217 *Calydoraea*
Caudex. subtler; fr. deep gr.

35218 ?
J. long br.
J; fr. deep gr. Calyx & fr. green

35219 *Pilea antioquiana*
at base of th

35220 *Aurum*

35221 *Spathiphyllum*
Ullantra

35222 ?
~~Jack~~ ep.?

35223 *Parthenocissus*
WV; br. gr.

35224 *Besleria quadrifolia*
Ter. herb; fl. Cor. mahogany-red; Calyx deep red

35225 *Tellandia pappigerastra*
Ep.; br. red.

35226 *Bromel.*?
Ep.; br. rd, pink at base; infl. covered with gelatinous stuff

35227 *Pilea*
St. repeat at base, broader, exp, suberect; infl. wh.
on ground or on base of t.

Camp I; dense for. (1000-1250 m.)

4/24

35228 *Diodia grandif.*
2m; lvs. r. br.; fls. fr. wh.

35229 *Gesn.*

35230 *Epi.*; cor. tube light pi., densely red-spotted in; lobes r. in
Lilacinae

35231 *Upr.*; br. rd.; per. red, white

35232 *Upr.* along br.; fl. pinkish
Pachyanthus
180cm
Ter.; fls. wh.

35233 *Gesn. rubicoides*
Upr. br. light green, pink-tinted; cor. blue brown $\frac{1}{3}$, wh. up.

35234 *Ceratodon purpureus*
Ter. cor. wh.

35235 *Periania cordifolia*
Sp. Rep. out.

35236 *Hyp.*
out

35237 *Anthurium*
Epi.; spathes gr.; spadix or.

35238 *Anthur.*

35239 *Epi.; fl. red*

35240 *Gesn.*

35241 *Epi.; calyx r.; cor. pi.*

35242 *Thib. umbellata*

35243 *Epi.; br. wifl. & fl. r.*

35244 *Gesn. elatior grossulus*

35245 *Epi.; cor. bright y.; diag. at base; lvs. light gr. br.; opp. whit.*

35246 *Gesn.*

Cor. cor., ter?

35247 *Trielea*

lt.; petiole wh.

35248 *Gesn. caerulea*

Epi.; buds cream

Cubit; dense fr.

4/24

35245 *Liliaceae?*
Ter; flw. r., pale at base

35246 *Bromus*
Sp; br. r.

35247 *Cyperus*
Ep. calyx def. red; co. exsert r.

35248 *Sisyrinchium*
Ep.; los dull

35249 *Nuzoinia amphioxalis*
S. thin; pet. light gr.; st. wh.

35250 *Pilea*

35251 *Oxyphylloides*
Ch; spadix wh.

35252 *Nuzoinia pendula*
S. 3-3.5 m; pet. light gr.

35253 *Orthotrichum*
Ter; sp. infl. lost?

35254 *Aurinia*
Ep; spathe gr.; early year fl.

35255 *Bromus*
Ter. br. r., flw. wh.

35256 *Nuzoinia*
T. 3-4 m.

35257 *Cyperus magellanicus*

35258 *Oxypolis*
Ep.; sterile

35259 *Ruppia* or t.

35260 *Cyperus corynoides*
Caulis mult. fl. up to 1.5 m long

35261 *Philydrum*
Ep.; fl. or.

Group I, dense for.

4/24

35262 *Zizichnium repens*

lsp. on tr

35263 *Banaceae*

Jrs.; no frt. clou out of plants

35264 *Napellaria*

lsp; per. deep fm.

35265 *Zizichnium*

fr clumps on tr

35266 *Jacaranda* ??T ~~±~~ 2.5-3 m; leafy tree like; old fm (?) base35267 *Trich.*

lsp. on tr

35268 *Moss*

On Another

35269 *Cida*

lsp; per. deep fm.

35270 ~~Sax?~~ *Deuter*

S or t? lvs. deep fm. base to; cor. pinkish blus.

35271 *Panif. tiliaefolia*

UV; sterile

35272 *Rub.*

un

Tree? Calyp gr.

35273 *Sphagnum fuscum* ?

Moss Forming mat

35274 *Sarcoph.*

Wort. herb, or shrub

35275 *Spathiphyllum*

Jrs; spath. fine wh; ofay + pinkish wh

35276 *Eucharis*

un

Per. fine wh; pl. leafless

35277 ~~Plant?~~ S

Tree 4-5 m; fr. green

35278 ?

un

Tree, 3-4 m n n

Yeraciū 700-900 ft.

Camp I; dense forest

4/24

open sandy ground along
stream

clearing open bush

Clearing

open woods.

dense forest ^(fine)

35279 *Acaea*
Caud. ± 6 cm., hgh; fr. ± 150 cm. long, sp.

35280 *Gesum*
Ter.; cor. y

35281 *Cyperus* y

35282 *Cyper*

35283 *Palmata*

35284 *Eup. Comp.*
S 1-1.5 m; seafloor rays wh

35285 *Pilea*

35286 *Gesum*.
Ep.; cor. cream, not spotted

35287 *Bryopteris* *Cyclodium trianae vanchoceense* A.R.Smith

35288 *Thib*
Ep;

35289 *Renularia*
Pr. red

35290 *Conoma* ↓
Trunk 5 cm diam, 2.2 m. high; fl. ± 30 cm.
(all of 2 los Calma)

35291 *Moss*
On los f 5290

35292 *Icoca*
Ex. sh. ± 1.5 m; pet. pi.; st. palm; fl. black

35293 *Geonoma* un
Trunk 3 m high, 3 cm. diam

35294 *Och.*
Ep.; pet. pi

35295 *Och.*
Ep.; pet. wh

Camp I, dense for.

925

open woods

thick

dense for.

35296 Moss
On roots of 35295

35297 Sapium, ?
Buds green

35298 Anthurium
Ep.

35299 Pleurothallis
Ep.; fls. whitish

35300 Neomiconia
Sessile, ± 2.5-3 m.; fr. black; pet. red, long

35301 Peperomia
Rep. on tree

35302 Polypodium
on tree

35303 Epidendrum
Ep.; per. very green - green

35304 Vitex
Ep.; infl. branched & calyx red; lvs. lustrous above

35305 Diphysa
Diphysa

35306 Sapot. See Separate Fruit Collection.
(fr. separate) "Carmelito" in
tr. ± 25 m; fr. also from ground not edible

35307 Pilea ophiodesma
Ep.; lvs. mostly above

35308 Gesneria
Lvs. green, red-brown longitudinal
Ep.; lvs & bracts light green, red-blotched close to apex

35309 Gesneria
Ter. lvs. & buds red

35310 Gesneria
Ep.; bracts light green

35311 Palm
Canopy all subterranean; fr. 3-3 m. long indep. pet.

35312 Moss
on tree

Camp I, dense for.

7/25-

35313 *Coussarea* fr. deep gr.
J 4-5 cm. high; trunk slender, much branching

35314 *Piper*
S, st. erect ± 1.2 m.; to name for my guide, whose name I
^{was often}

35315 *Anthonia*
Fr. spath. gr.; spathis pubescens?

35316 Rub. ??

35317 H; buds deep pi
Piper
St. erect ± 1.5 m; cf. # 35314

35318 *Dennstaedtia*
Jo

35319 *Hedwiania erecticarpa*
Ter.

35320 Selag.
On wet T

35321 Moss
On dec. log.

35322 Melast.
J 4-6 m; trunk, 25-30 cm diam; pet. velv. pi

35323 Selag.
On bank

35324 Elaphi.
On T; sterile

35325 Moss
On branches

35326 Rub
J 4-5 m; fr. flesh

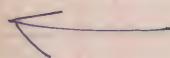
35327 *Pholidoscelis cordata*
Ep.; petiole light gr.; lvs dull above

35328 Gesn.
Ep. lvs with broad red margin ven.; calyx ^{light} gr.

35329 *Costus*
Per. wh.

Camp I; dense for.

4/25 -



35330 *Xanthosoma*
Ter. spathe deep r; spadix wh.

35331 *Picramnia*
J; epiphloem strip; fls. 49

35332 *Moss*
On banks

35333 Hep.
Do

35334 *Cypera squam*
Andex 2.2 m

35335 Rub.
S 2.5-3 m

35336 Pfei
S ± 3 m

35337 Gun? Rub.
~~S~~ Suf. hab, st ± 30cm

35338 *Peperomia*
Ep; lvs rather fleshy; infl. gr.

35339 ~~out~~ Trich.
On banks

35340 Hep.
On T L.

35341 Elephant.
Do On banks

35342 *Polyfodium cunnamulatum*
On T L

35343 Ochi. ??
Ter; per. finish blue

35344 *Aethion*
Sp. spathe light gr; spadix dark purple

35345 *Moss*

35346 *Lycopodium*?
Ep. —

Camp I, dense for.

4/25 -

35347 *Aechmea*
Brom. ± 45 cm. high

35348 ?

T 3-4 m., flr. red, with 5 deep lines at sutures

35349 *Anthurium*
Ep.

35350 *Anthurium*

Ep. Sp. o & fad light gr

35351 *Anthurium*

Ep. ~~Fls.~~ Heliconia

Tree, 4-5 m.; buds gr.

35352 *Lycop. cernuum*

35353 *Siphonandra*
WV; cor. wh

35354 *Cuphea*

Pet. light br

35355 *Grams*

35356 *Sida glomerifolia*

H up to 1 m

35357 *Tournefortia*

35358 *Gomph*

Cor. wh

35359 *Cheloneanthus*

35360 *Ireschilus*

Ep. oppenend to trunk; fls. wh

35361 *Dypsis*

T 3-5 ft Sut 3-4 m; cor. y

35362 *Dypteryx*

35363 *Dypteryx*

Copy I; leave for

1/2 v-

2d growth woods

edge groves, in open

Banks of R. San Juan, open river bank
Corcovada Region, t 100m.

open woods

shaded river bank

35364 *Dicranum*
 Br. green, not variegated
 35365 *Humbertia*
 HV; cor. wh
 35366 *Oreac.*
 Ter.; *Opuntia*; spad. or.
 35367 *Rafnia*
 35368 *Voxna*
 Sarcophyte; cor. y
 35369 *Mesaria*
 35370 *Leptoleilus*
 Ter.
 35371 *Selag.*
 High elevation, with long-
 35372 *Ardisia*
 Tr 6-7 m; cor. wh
 35373 *Warcegewiczia*
 I, 6-5 m.; Br. bright r.
 35374 *Aphelandria*
 Coarse h, ~~± 1m~~ 60-80 cm
 35375 *Palus*
 Trunk ± 2.2 m h, ± 2cm dia
 in upper part
 35376 *Cephaelis*
 L-S, 2 m high; Br. A
 35377 *Myrsin*
 Cylip subt., fr. ± 1.6 m
 35378 *Phaseolus*
 HV; fls. green & y
 35379 *Selag.*
 35380 *Dicranum*
 In clumps

Camp I. open back of R. San Joaquin

Andagoya : clearing (escape) 65 m

2d growth for, west side of
R. San Juan 60-90 m

4/25

412

Sandy & gravelly edge
e. # = characteristic levels
along S. Juan (60 m.)

35381 Moss
dependent from banks *

35382 *Sauvagesia*
Pet. sp. *

35383 Acauthi; Scroph?
Cor. w. *

35384 Piper
Tr. ± 4 m; branches hanging over bank *

35385 ?
Variable in height 3-8 m; only along the river. "Pielimile" *

35386 Acauthi
Cor. wh. *

35387 Pilea
On muddy bank

35388 Alga
On wet rocks

35389 Grass *

35390 Costus
Pl. 1.5-2 m; fol. wh. red-striped toward margin in upper leaf

35391 *Plydenbush*

35392 Cassarea
S, elong. tr up to 2 m l. *

35393 Dryopteris

35394 Inga
Tr 8-10 m; stipe

35395 *Trichilia*

35396 Polypodium
On E.

35397 Castilla
Tree tree, giving shade "Castilla"

Andagoya: rocky & gravelly slope of R. San Juan across from camp 600 m.

4/27

↗ dense for. along stream
600 m.

35398 *Polypondium*
Repetit

35399 *Sandelia*
St. subsp., br. red, cor. y

35400 *Pilea*
Repetit as 301

35401 *Eucharis*
Per. wh

35402 *Pityrogramma*

35403 *Elatostoma*

35404 *Furcraea*

35405 *Phyllanthus*

35406 *Cleome*

35407 *Dioscorea grandis*
Ter.; pet wh

35408 *Piper firmum*
Ter. Herb, + suff. stem 15-60 cm high

35409 *Solanum* with green
low S. br. up to 1.5 m. long; cor. greenish wh, pink-tinged

35410 *Guzmania*
H/V calyx light r, cor. light y.

35411 *Crinodexia* white along midrib
Ter; lvs bright gr. above, pale below cor. y

35412 *Piper*
S 2-3 m.

35413 *Heliconia*
St ± 1.5 m; infl. pendent; no complete lvs seen; br. r

35414 *Pilea degeneri*
Rep. on ground & up base of trees

Audagoya: dense forest along stream,
several km from Audagoya
60m.

Audagoya

Rio Condoto, Camp III, Mandinga 60m. 4/28
Swamps

clearing

→ dense for. along
trail from Bridge III to
Audagoya Swamps (alt. 120-180m.)

35415 *Conospermum*
Tr 5-6 m corolla light blue; lobes slightly dentate-bl.
35416 *Platycerium?*
Tr 5-6 m; cor. wh.
35417 *Grass* at summit, fls. among them
St with straight, slender trunk \pm 5 m high; lvs in roset.
35418 *Pachystachys*
Sorrel T 2.5-3.5 m; buds green
35419 *Rubus* (Malabar)
H; fr. wh.
35420 *Moss*
Along branches of 35419 or on other br
35421 *Piper*
 $S \pm 1.5$ m
35422 *Solanum pellucidum*
 $S \pm 1.5$ m
35423 *Nertera*
Leafy stem \pm 2.2 m; infl. at base; fr. on
35424 *Ferns*
On edge of leaf
35425 *Pandanus*
W V; fls. (buds) in clusters on old wood; greenish wh
35426 *Rubus*
Tree; branch fallen; fr. or -tend.
35427 *Palm* *Peltia marginata*
No infl. See esp. note
35428 *Dicella meonantha* white to blue, caducous
Tr.; cor. pet. pink; fruit bluish; anthers cream
35429 *Yucca*
Tr.
35430 *Caridinocereus*
Ep; fr. or.
35431 *Caesalp. (of Aechia)*
Tree 12-15 m; pubescent but not glaucous

Rio Condoto, dense forest along trail
from dredge II to Q. Encanto
 $1400-1800$ m.

4/28

35422? Stick \pm 2 m high, almost a tablet, probably
trunk 40-60 ft high \pm 10 cm diam; infl. pet. \pm 1 m
for wood. Lvs 3 m long, incl. pet. \pm 1 m.
Sheath twice as long as spike (the

35432 *Prem*
Ep.
35433 *Vouapa*
Jac. tr; stell.
35434 *Rub*
Tr, 8-9 m; cor. yg; los toward ar. ant
35435 *Leucosyrum*
Plant reddish; on tr.
35436 *Scleria*
Br. subsp.; los very sharp-edged
35437 *Drypetes*
Tr.
35438 *Ocotea*
Clustering high on tr
35439 *Aurit* *aurea*
Ter; sp. the green; spad. pi
35440 ?
Tr, 7-8 m high; fr. dep 2; seeds orange
35441 *Scaphium*
Sapw; cor. faint blue tube light gr, lobes bluish
35442 *Melast.*
Vine appressed to tr.; sterile flowers red
35443 *Xanthosoma stratiotes* 2
Ep; sp. the gr.
35444 *lun*
On sec. log
35445 *Prem*
on bank
35446 *Brophytum*
Trs light gr.
35447 *Pilea*
Rep. Ter sub. 1 ft
35448 *Rub.*
Tr 7-8 m; fr. wh

R. Condoto; dense forest along bank
from bridge II to H. Guanapo
100-150 m.

Bank of small stream

35449 *Piper*
H. 3 ± 1 m.

35450 ?

Projecting from trunk of a Melast.

35451 *Dicranostyles*
High up; cor. wh.

35452 *Pipa*

H ± 2.5 m.

35453 *Vismia*
J 5-6 m.; lvs light gr. ven.

35454 *Dryopteris*
Trunk ± 1.8 m., mid. stipe

35455 *Vismia*

J 7-8 m.; lvs rusty-br. base; fls. red-br.

35456 *Vernonia longifolia*
^{Selwyn} Soft; opp. wh.

35457 *Vernonia purpurea*

Soft; flowers dark purple; opp. wh.

35458 *Turila lobata*

H ± 1.5 m.; infl. ~~dark~~ yellow

35459 *Gesner*

Creat ^{dark} 1.5 m high, calyx 5; cor. bright red.

35460 *Rub*

J 4-5 m, along br.; bracts pub.; cor. wh.

35461 *Crenatosperma*

Cor. cor. ay

35462 *Spigelia*

H 50-80 cm; cor. pi, tube wh.

35463 *Phytolacca*

Sc. mt

35464 *Ochroma*

On rocky soil, partly in water

35465 *Maurandella*

± H.V, cor. light yellow, bracts
yellow; lvs. wh.; fls. wh.

R. Condoto: dense for. along trail
from bridge III to Ch. Guapo
120-140 m.

4/28

El Coco: P. Petimba, 1475 m forest
along road to Chimalo
thickets

4/27

forest

thickets

sun forest
(only seen here)

marsh

thickets

35466 Peperomia
Ter.

35467 Geococcyx.
Ter on bank

35468 Bromel.
sp.; fr. ?; pet? wh

35469 Acanth.
Cor. wh

35470 Coccocypselum
Rep. w; cor. light blue; fr. deep blue

35471 Aristolochia
H.V.; cor. fls. green lower half, broad red, green-veined

35472 Caryopoma
H.V.; fr. y, 8cm. long, 5cm. diam

35473 Cordia
S 1-1.5m high, with elong. br; cor. wh.

35474 Anthostema

35475 Cretaria
Herb along. br; pet. pink (yellowish), pet. magenta
Cone erect H 80-120 cm; fr. y

35476 Passiflora vitifolia
H.V.; sep. & pet. ?.

35477 Begon.
W.V.; br. pr., bi-winged; fr. r.

35478 Solanum
S. ± 1.5m., along br; cor. wh. anthers

35479 Trapa micrantha
Tree

35480 Scroph.
Suberect bush; cor. bright blue

35481 Bromel.
Ep.; buds blue purple, pub. blue dist

35482 Crotalaria
T, 6-8m (observed also at Camp. I)

Gatun 2,950 m. done for
along road to Gibebe

4/29

seed bank

done for

thickets

done for

thickets

open meadow

35483 Selag.
On bank

35484 Heliotropium scroph.

35485 Repeat; fls. wh.

35486 Scroph.
Fls. wh.

35487 Tossyphium

35488 Melast
Sh 1.6-1.8 m. high; fls. wh.

35489 Mikania micrantha
H/V; flowers white

35490 Selag.

On ground.

35490 Polypodiaceae

35491 Solanum pallidum
Sh 2-2.5 m with arbse. br.; cor. wh.

35492 Lasiacis
Pl. high-climbing

35493 Cestrum?
Subsc. shrub

35494 Solanum
subsc. shrub; cor. greenish wh

35495 Aegiphila
' a " " ; buds " "

35496 Herb.?
Coarse herb; ± 1.8 m; buds " "

35497 Grass
(none of these Andugoya grasses are good past) ↵

35498 Leg.
Tree 10-12 m; pods on ground; lvs from young

35499 Ocimum pusillum
Sp.; per. branched; lvs. opp. red of stem toward center

Gatunia $\frac{4}{12} \text{ m}$ down for
along road to Guibaldo
ditch

Audugoya (cult.; specimen given me
by one of employees of Company)

$\frac{1}{12} \text{ m}$
second growth forest
thickets 70-100 m

second-growth for.

dry

second growth for.

35500 *Trichomanes*

On t/c

See Separate Plant Collection

35501 *Anon.*Tree 15-20 m, trunk 80-100 cm. diam; bark just in water,
6-18 m high, trunk 20-25 cm diam.35502 *Palem* no stobs; trunk 40-60 ft.
See Separate Plant Collection infl. borne just below lowest leaf.
Leaf ± 7 ft. long, pet. 2-5 ft. fruit extra tasteless35503 *Brownea multijuga*35504 *Epidendrum*

Ep.; all fr. very greenish wh.

35505 *fielma*

Among roots of 35504

35506 *Osch.*

Ep.; fr. young (?)

35507 *Osch.*

Ep.; fr. wh.

35508 *Osch.*

Ep.; sterile?

35509 *Osch.*

Ep.; old fr. reddish

35510 ? Fern:

Hanging in a dense mass from t/c

35511 *Eleocharis*35512 *Moss*

On t/c

35513 *Palem*

Tr. ± 3 m h, 3 cm diam; pet. ± 12 cm; fr.

35514 *Nyct.*

Sm L, ± 2.5 m; buds (?) absent

35515 *Coryp.*

Viscidulent up t/c

35516 *Codonanthus*

Scandent on t/c, (bulb)

Audagoya: second growth forest 70-100 m \$1.50

A tree of
some fruit
in studies and is next to the ~~the~~ ~~the~~ ~~the~~
125 m148 (see wood notes) clearing
very common on flat-tops along 5. Poco
Río Frío, Geo. Rhodes coll. 1.70 m

dense for.

Buenaventura Bay: mangrove swamp

\$1.4/-

Tidal thickets along mangrove swamp

35517 *Borreria*
Tufted; cor. wh.

35518 *Brom. frutescens*
Herb, sup. below, br. erect; pet. pink to purple

35519 *Oxalis*
Pet. w.

35520 *Passifl. coriacea*
H.V.; sepal. light gr.; fr. purple

35521 *Melocallis*
H. ± 50 cm; pet. wh.

35522 *Colombia*
H; tube light red, yellow, lobes light red, dorsal - green,

35523 *Chaptalia*
Sup H, up to 1 m; pet. red.

35524 *Pavonia*

35525 *Dendrobium*

St. repeat

35526 *Paphiopedilum*

S ± 1.5 m; small branched above; cor. white

35527 *Passifl. quadrangularis*

H.V. stems

35528 *Passifl. quadrangularis*

H.V.; all flower parts greenish wh.

35529 *Polygonia obliqua*

S or bent ± 3 m

35530 *moss*

on C.C.

35531 *Heliconia*

Stem ± 1.7 m; stiff. erect; br. or, yellowish

35532 *Cladonia*

S ± 2.3 m; pet. purple (perhaps escaped)

35533 *Drim. ciliolata*

Subsp. h., pet. wh

with subprostrate branch

35534 *B. ventricosa* Day; thickets along
mangrove swamp
Cisneros: open beach

5/4

5/5-

Thickets

open beach

Thickets

~~open~~ open areas

Thickets

Uncates given Bogota, and two left back, mounted
as loan
1 - 5 - 3/4/41
180 - 16/4 -
181 - 3/4/41
270 - 5/50
301 - 13-1-41 1/1/41
306 - " "
307 - " "
308 - One pair 10/1/41; Weber, ex-governor of Bogotá, received
1/25; price, rate 1
315 2/41
316 3/4/41
322 " "
323 11/6/41
327 Brown (accrued on 306)
329 2/4/41
334 2/47
335 - 3/4/41
336 " "
337 3/4/41
343 - 5/50
347 Centro, weber (sent pair) part noted
390 2/4/41
618 " "
626 " "
799 " "

752/548
Bogotá, ex-governor
of Bogotá
11-12 2/4/41
2 - 1/2/41

630
377
4

1

35534 *Fittoria*
Rep. H., lvs conspicuously white variegated
35535 *Lecanum*
Ish; cor. D orange
35536 *Carludovica palmata*
Giant aroid; flt. ~~tell.~~ 1.5-1.8m.; infl. green
35537 *Adiantum macrophyllum*

35538 *Selaginella*

Ep.

35539 *Solinvia*
H V; infl. orange
35540 *Adiantum melanost.*

35541 *Cayaponia*
H V

35542 *Lasioscia*
High cliff top

35543 Selag. *Selaginella bombycina* Spring
On bush

35544 *Aisanpela grandif.*
H V

35545 *Calathea* gen.

St. t 60cm. fr. scar. wh; per. greenish yellow, pale prox

35546 *Geophila*
Rep. H; cor. wh; flt. r

35547 Hep.
Hanging from branches

35548 *Pneumatia* (fl. rep.)
Leafy stem 2-2.1m; infl. peduncle ± 30cm; fl. light

35549 *Dryopteris*
^{with} *Conchopteris*
subtilis

35550 *Peperomia elongata*
Ep.

El Valle: Cacicora, open woods
400-500 m.

7.1-

thickets

open woods

35551 *Polypholia furfuracea*
on t.

35552 *Cyclopeltia seminodosa*
var.

35553 *Melothria*
H V

35554 *Costus*
H ± 1.8 m; br. r; fr. wh.

35555 *Ferrilea*
H V; fr. black

35556 *Vernonia*
Bast tree ± 4 m; oppen wh

35557 *Aurinia*
sp. Spec leaf bright pi, fr. (?) wh, publ. at base

35558 *Passifl. belinii*
H V; sterile

35559 *Cryptanthus*
Par.

35560 *Dryopteris Thelypteris gemmifera* (Hieron) det. D.B. Collinger 1983

35561 *Eup.*
S; ± 2 m

35562 *Hedera canina gracilis*
leaf lvs ± 50 long; fr. wh.

35563 *Cayaponia*
H V

35564 *Piper*
S ± 2.2 m.

35565 *Chamaefistula*
br. t., 3-3.5 m; pet. light y

35566 *Polygonia occ.*
br. t. 3-4 m

35567 *Panigle. trif.*
H V; sep. sp. scarlet

Cuernos 1400-500 m. open woods

~70 -

turkeys

open woods

35568 *Gordonia* *Dimerostoma* per. wh, or pinkish
Arborescent; trunk 4m high, 7cm. diam. fl. ^{white}
35569 *Trema*
Tr. 5-6 m.
35570 *Polyph.*
Ep.
35571 *Piper*
S ± 2 m
35572 *Epidendrum*
Ep; fl. per. green.
35573 *Acacia*
Tr 6-7 m
35574 *Acauth.*
H ± 1 m; lower lvs. pi
35575 *Sturnus vulgaris*
H ± 40 cm; pet. y
35576 *Canna*
H, ± 1.2 m; per. n.
35577 *Begonia*
Ter.; pet. wh, pi-tinged
35578 *Chileanthus*

35579 *Brachyotus pubescens*
H V; fl. Standard bluish fi

35580 *Mor.*
Tree 5-6 m; infl. yg

35581 *Colonia*
tube
Cir. 2., lobes green, black & spotted in

35582 *Alternanthera*
H ~~6~~ 20-80 cm; infl. greenish wh

35583 *Drosera rotundifolia*
H V; pet. pinkish blue.

35584 *Fagopyrum*
H V

Casuarina 400-500 m; open woods

5/6-

300 m thickets along R. Dagua

shale bank

thickets along R. Dagua

shale bank

thickets " " "

35585 *Pilea*
Succ. herb.

35586 *Aphelandra*
 $S \pm 1\frac{1}{2}$ m; cor. bright r.

35587 *Bromel.*

Ep.

35588 *Selag.*
Ter.

35589 *Acanth.*
Herb. ± 1.8 m; cor. blue

35590 *Aphelandra*
 $S \pm 2$ m; cor. bright r.

35591 *Peperomia*
Report on branches

35592 *Gnidia paniculata*
Ep.; cor. bright y

35593 *Pavonia*
 $H \pm 80$ cm; pet. pi.

35594 *Oxalis*
Pet y

35595 *Aurinia*
Ter.; infl. at base of tel.; los up to 1 m h

35596 *Panama Trichomanes*

35597 Grass

35598 *Lida limjolii*
Pet wh

35599 *Marchantia*

35600 *Grimm*
On wet bank in spray of falls

35601 *Selag.* *Selaginella novae-hollandiae* (Sw) Spring

Casares, 200 m; thickets along R. Dayua $5\frac{1}{2}$ -

open shale bank

wet bank in spray of water

-

-

35602 Grass

35603 Moss

35604 *Piper cordatum*

St. branched at base, br. up to 22.5 cm.

35605 *Pilea mucronifolia*35606 *Hydrostachys Eup.*

Rep. lvs. bl; florets blu

35607 *Gesneria*

Cor. tube wh, lobes blu

35608 *Pefumaria*

Op

35609 ~~Sax~~ *Solanum*35610 *Pilea pubescens*35611 *Brachystelma*

H ± 1.8 m.; cor. y; fl. red

35612 *Euphorbia*

Br. red toward base

35613 *Vernonia*

S ± 2 m; plants pubish blu

35614 *Tectaria*35615 *Scroph.*

Pivot. bl, cor. wh

35616 *Scroph.*

Ex. bark; cor. blu.

35617 *Portulaca*

Des. deep pi.

35618 *Solanum*

H up to 50 cm; cor. wh

Cauca 300 m; wet bank in spray
of falls.

70 -

open woods

wet bank in spray of falls.

thickets

wet bank - - -

" " "

open bank

shaded -

thickets

wet bank in spray of falls

gravelly, ~~river~~ bed

35619 *Galactia*
Rpt. H; jet bln
35620 *Chamissoa*
Pet. 4
35621 *Polygala*
Pet. pinkish blue & wh.
35622 *Nuccula* (3314(1))
seeds
35623 *Hypnum* (3315(1))
on 15
35624 *Grimm.* (3315(1))
35625 *Bromel.* (3321(1))
Ter.
35626 *Gesner.* (3324(1))
Ter.
35627 *Lindsaya* (3324(1))
35628 *Gesner.* (3324(1))
Ter.
35629 *Gesner.* (3324(1))
Ter.
35630 *Cestrum* (3325(1))
35631 *Technosiphon* (3327(1))
35632 *Rub* (3327(1))
35633 *Rynch.* (3328(1))
35634 *Moss* (3329(1))
on 334(1)
35635 *Psychotria*
2-10 ft. from ground

5/5-

Asieros, 300 m., grassy hillside
open bank

Buventura: waste places

Gorgona Is.: beach

" : coastal (d.f. along stream)

" " " " coastal thickets

" " " " "

Kee. (8, dense for.)

" "

" "

North slope, Buventura Bay

" "

Cordoba: in ditch

" dense for.

El Bosque

35636 *Carluccovia* (33501a)35637 *Piper* (24518a)35638 *Piper* (33521a)35639 *Acanth.* (33570a)35640 *Moss* (33710a)
On dec. branches35641 *Gesner.* (33767a)35642 *sol.* (33710a)

35643 " (33772a)

35644 *Moss* (332201a)
On branches35645 *Nichomanus* (33724a)35646 *Och.* (33843a)35647 *Ep.*
Gesner. (33914a)35648 *Ep.*
Berberis
small tree (33113a)35649 *Gram* (33714a)35650 *Cyperaceae* (31187a)35651 *Maurit.* (34222a)35652 *Hypxis* (34509a)

Balneario; dense for. along th. Jefilite

" "

" "

" "

Yanacocca: dense for. near Lirio

" El Silencio

" "

" "

" "

San Antonio

"

Par. de Guarea

"

± 20 km S.E. Vilcabocoso; palm jungle

" " "

" " llanos

2/2

"

"

2/27

2/28

3/2

3/12

3/17

35653 Leg. (34400a)
Hv; pet. blue

35654 Clibadium (34400a)

35655 Minos.
Tree 5-6m high (34400a)

35656 Melast. (34400a)
S

35657 Cissampelos (34400a)

35658 Arch.
Ep. Ter. (34400a)

35659 Opalis (34400a)

35660 Comp. (34400a)

35661 Krib.
S, along branchy; bracts pi; cor. whole (34400a)

35662 Ode. (34400a)
Ep.

35663 Sarcobatus (34400a)
low s

35664 Pilea

35665 Rust on 34698 (34400a)

35666 Acaule. (34400a)

35667 Eup. (34400a)

35668 Krib.
Ep. (34400a)

35669 Eleocharis (34400a)
Ep.

Rio Ocoa; rocky stream bed 3/18

Rio Guatiquia; streambed "

" edge of river "

" woods along river "

(Guindis Highway, Km 40; wooded valley ^{2430m}) 3/27

" " open land, 2200m "

" " " 2750m "

" " "

" " "

" " circle "

" " " ± 2900m 3/28

" " "

" " open bank, ± 2800m "

Along R. Carca, N.E. of Cali; 6000m 3/31

Ta Elba, 825m; densely forested valley 4/2

Rio Engaño 4/4

B/ventura Bay; mangrove swamp 4/13

35670	<i>Melast.</i>	(350734)
	Tree, 3-4 m; fr. purple	
35671	<i>Gesner.</i>	(350734)
	Leaves.	
35672	<i>Arthrostemma</i>	(350734)
35673	<i>Palme</i>	(350734)
35674	<i>Oech.</i>	(350734)
	Ter.	
35675	<i>Nyssia</i>	(350734)
	T	
35676	<i>Hop.</i>	(350734)
	On tree.	
35677	<i>Uvex</i>	(350734)
	On branch	
35678	<i>Piper</i>	(350734)
	Ter.	
35679	<i>Hop</i>	(350734)
	On branch	
35680	<i>Hib-</i>	(350734)
35681	"	(350734)
35682	<i>Gesner</i>	(350734)
35683	<i>Bromel.</i>	(350734)
	Ep.	
35684	<i>Cyperal.</i>	(350734)
35685	<i>Anac.</i>	(350734)
35686	<i>Austrolechia</i>	(350734)

35687 Fern (35753a)

35688 Passia
Fruit from Hotel Alfonso Real
35689 Hydnop. (34263a)

35690 " (33562a)

35691 Calathea (34724a)

35692 Campylanthus (34712a)

35693 Diolena spicata Trin. (35243a)

35694 Moss (34673a)

35695 Hoya ~~lanceolata~~ 350056

35696 R. 6. 33-39a

35697

35698

35699

35700

35701

35702

35703

Cesarios; thickets ~ 5/5-

Colo 4/9

20 Km SE Villanueva

Bahia Solar, Dept. Jocote 9/14

Dagua Valley

P. Guatiquia

Cocobala

Huila

R. Bequia

3/28

4/17

35704

35705

35706

35707

35708

35709

35710

35711

35712

35713

35714

35715

35716

35717

35718

35719

35720

36639

36640

36641

36642

36643

36644

36645

36646

36647

36648

36649

36650

36651

36652

36653

36654

36655

36656

36657

36658

36659

36660

36661

36662

36663

36664

36665

36666

36667

36668

36669

36670

36671

36672

36673

36674

36675

36676

36677

36678

36679

36680

36681

36682

36683

36684

36685

36686

36687

36688

36689

36690

36691

36692

36693

36694

36695

36696

36697

36698

36699

36700

36701

36702

36703

36704

36705

36706

36707

36708

36709

36710

36711

36712

36713

36714

36715

36716

36717

36718

36719

36720

36721

36722

36723

36724

36725

36726

36727

36728

36729

36730

36731

36732

36733

36734

36735

36736

36737

36738

36739

36740

36741

36742

36743

36744

36745

36746

36747

36748

36749

36750

36751

36752

36753

36754

36755

36756

36757

36758

36759

36760

36761

36762

36763

36764

36765

36766

36767

36768

36769

36770

36771

36772

36773

36774

36775

36776

36777

36778

36779

36780

36781

36782

36783

36784

36785

36786

36787

36788

36789

36790

36791

36792

36793

36794

36795

36796

36797

36798

36799

36800

36801

36802

36803

36804

36805

36806

36807

36808

152

